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AERODYNAMIC RESULTS OF SUPPORT SYSTEM
INTERFERENCE EFFECTS TESTS CONDUCTED IN NASA/ARC 6-
BY 6-FOOT SUPERSONIC WIND TUNNEL USING AN 0.015-SCALE
MODEL OF THE CONFIGURATION 140A/B SSV ORBITER (0A59)

VOLUME I

By

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By

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Test Number: ARC 66-709
NASA Series Number: OA59
Model Number: 49-0 Mod.
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Occupancy Hours: 141

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ABSTRACT

An experimental aerodynamic investigation (OA59) was conducted in the NASA/ARC 6- by 6-Foot Supersonic Wind Tunnel from 13 through 22 March 1974. The test article was an 0.015-scale Configuration 140A/B SSV Orbiter model (49-0). The primary objective of this investigation was to determine the extent aerodynamic simulation is compromised by sting base mounting with MPS nozzles removed.

Both a conventional sting (through the base) and an alternate model mounting system were utilized. The alternate mounting system consisted of a non-metric blade strut, which approximated the vertical tail and entered the model through the upper aft section of its fuselage. The model was tested both in and out of the presence of a dummy sting with and without MPS nozzles when on the alternate mounting system. Data were obtained at Mach numbers from 0.6 through 2.0, a Reynolds number of 2.5 million per foot, angles of attack from -4 through 14 degrees, angles of sideslip from -15 through 15 degrees, elevon deflections of 0 and 15 degrees, and bodyflap deflections of -11.7, 0, and 16.3 degrees.

This report is published in two volumes. Volume I contains Data Figures 4 through 9. Volume II contains Data Figures 10 through 15 and the Tabulated Source Data.

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PLOT SCHEDULES

- A) CL, CD, CA, CLMFWD, CLMAFT vs ALPHA, CN CL vs CLMFWD, CL vs CD
- B) CNT, CMTFWD, CMTAFT vs ALPHA, CNT, CLT vs CMTFWD, CLT vs CDT, CDF, CAF, CAB vs ALPHA
- C) CAV, CNV, CMVFW, CMVFT vs ALPHA
- D) CLT, CLV, CL, CDB, CDCD, CDF, CDT vs MACH
- E) CMTFWD, CMVFW, CLMFWD, CMTAFT, CMVAFT, CLMAFT, CNT, CNV, CN vs MACH
- F) CAB, CAV, CA, CAF, CAT vs MACH
- G) DCLT, DCLV, DCL, DCDS, DCDV, DCD, DCDF, DCDT vs ALPHA
- H) DCMTFW, DCMVFW, DCMFW, DCMTAF, DCMVAF, DCMMAFT, DCNT, DCNV, DCN vs ALPHA
- I) DCAV, DCAB, DCA, DCAF, DCAT vs ALPHA
- J) DCLT, DCLV, DCL, DCDS, DCDV, DCD, DCDF, DCDT vs MACH
- K) DCMTFW, DCMVFW, DCMFW, DCMTAF, DCMVAF, DCMMAFT, DCNT, DCNV, DCN vs MACH
- L) CBL, CYN, CY vs BETA
- M) DCBL, DCYN, DCY vs BETA

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m^2 , ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{l}_{REF} \bar{c}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2 , ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_F}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CTM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CTL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CTM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CCL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _F	L/DF	lift to forebody drag ratio; C_L/C_{D_F}

NOMENCLATURE (Continued)
(Additions to Standard List)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
BOR		body of revolution
C_{D_V}	CDV	vertical tail base drag coefficient
C_{L_V}	CLV	vertical tail base lift coefficient
C_{m_V}	CMVFWD	forward vertical tail base pitching-moment coefficient
C_{N_V}	CNV	vertical tail base normal-force coefficient
C_{A_V}	CAV	vertical tail base axial-force coefficient
ΔC_D	DCD	balance incremental tare drag coefficient
ΔC_L	DCL	balance incremental tare lift coefficient
ΔC_{m_f}	DCMFWD	balance forward incremental tare pitching-moment coefficient
ΔC_N	DCN	balance incremental tare normal-force coefficient
ΔC_A	DCA	balance incremental tare axial-force coefficient
ΔC_Y	DCY	balance incremental tare side-force coefficient
ΔC_l	DCBL	balance incremental tare rolling-moment coefficient
ΔC_n	DCYN	balance incremental tare yawing-moment coefficient
$C_{p_{V1}}$	CPV1	base pressure coefficient on upper speed brake portion
$C_{p_{V2}}$	CPV2	base pressure coefficient on lower speed brake portion
$C_{p_{V3}}$	CPV3	base pressure coefficient on lower vertical tail portion
XV1		longitudinal distance from $0.65 \ell_B$ to centroid of area containing $C_{p_{V1}}$

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
XV2		longitudinal distance from 0.65 l_B to centroid of area containing C_{pV2}
XV3		longitudinal distance from 0.65 l_B to centroid of area containing C_{pV3}
ZV1		vertical distance from 375" W.L. to centroid of area containing C_{pV1}
ZV2		vertical distance from 375" W.L. to centroid of area containing C_{pV2}
ZV3		vertical distance from 375" W.L. to centroid of area containing C_{pV3}
A _{V1}		area associated with pressure coefficient C_{pV1}
A _{V2}		area associated with pressure coefficient C_{pV2}
A _{V3}		area associated with pressure coefficient C_{pV3}
$C_{pB(i)}$		body base-pressure coefficient from body base orifice $P_{B1,2,\dots}$
C_{pC1}		strut cavity-pressure coefficient from strut cavity orifice P_{C1}
C_{pC2}		sting cavity-pressure coefficient from sting cavity orifice P_{C2}
C_{pAi}		fuselage afterbody pressure coefficient
X_0		Orbiter fuselage station, inches
Y_0		Orbiter butt plane, inches
A _{Bi}		base area assigned to i^{th} pressure, in ²

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{A_b}	CAB	model-body base axial-force coefficient
C_{D_f}	CDF	total forebody drag force coefficient
C_{D_b}	CDB	model body base drag-force coefficient
C_{m_f}	CLMFWD	balance forward pitching-moment coefficient at 0.65 l_B
C_{m_a}	CLMAFT	balance aft pitching-moment coefficient at 0.675
$C_{m_{t_f}}$	CMTFWD	forward total pitching moment coefficient
$C_{m_{t_a}}$	CMTAFT	aft total pitching moment coefficient
$C_{m_{v_f}}$	CMVAFT	aft vertical tail base pitching moment coefficient
C_{L_t}	CLT	total lift-force coefficient
C_{D_t}	CDT	total drag-force coefficient
C_{N_t}	CNT	total normal-force coefficient
C_{A_f}	CAF	total forebody axial-force coefficient
C_{A_t}	CAT	total axial-force coefficient
ΔC_{L_t}	DCLT	incremental total lift-force coefficient
ΔC_{L_v}	DCLV	incremental vertical tail base lift force coefficient
ΔC_{D_b}	DCDB	incremental model body base drag force coefficient

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
ΔC_{D_V}	DCDV	incremental vertical tail base drag force coefficient
ΔC_{D_f}	DCDF	incremental total forebody drag force coefficient
ΔC_{D_t}	DCDT	incremental total drag force coefficient
$\Delta C_{m_{t_f}}$	DCMTFW	incremental total forward pitching moment coefficient
$\Delta C_{m_{V_f}}$	DCMVFW	incremental forward vertical tail pitching moment coefficient
$\Delta C_{m_{t_a}}$	DCMTAF	incremental total aft pitching moment coefficient
$\Delta C_{m_{V_f}}$	DCMVAF	incremental aft vertical tail base pitching moment coefficient
ΔC_{m_a}	DCMAFT	incremental balance aft pitching moment coefficient
ΔC_{N_t}	DCNT	incremental total normal force coefficient
ΔC_{N_V}	DCNV	incremental vertical tail base normal-force coefficient
ΔC_{A_t}	DCAT	incremental total axial force coefficient
ΔC_{A_V}	DCAV	incremental vertical tail base axial-force coefficient
ΔC_{A_b}	DCAB	incremental model-body base axial-force coefficient
ΔC_{A_f}	DCAF	incremental total forebody axial-force coefficient
δ_{bf}	BDFLAP	bodyflap deflection angle, positive trailing edge down, degrees

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
δ_e	ELEVON	elevon surface deflection angle, positive trailing edge down, degrees
Λ_u		sweepback angle of the speedbrake trailing edge, degrees
Λ_L		sweepback angle of lower part of the vertical tail, degrees
δ_{sb}	SPDBRK	speedbrake deflection angle, degrees

CONFIGURATIONS INVESTIGATED

Two support systems were tested. One was a Rockwell supplied blade-strut support which enters through the top of the model near the base, replacing the vertical tail as shown in figure 2b. The strut simulated the vertical tail (with a 24.92 degree speedbrake flare) to the extent that its span and profile closely matched. Because of stress considerations cross sections at various spanwise stations could not be matched. See figures 2d and 2e for comparisons. A (non-metric) dummy sting was located (via a stringer from the Ames sting which supports the blade-strut) in close proximity to the base. It simulated the first 20 inches of exposed sting downstream of the model base which exists for the case where the model is base mounted. Refer to figure 2a.

Control surface deflections tested were:

elevon: 0° , 15°

bodyflap: -11.7° , 0° , 16.3°

speedbrake: 24.92°

rudder: 0°

The basic Orbiter configurations are as follows:

$$O_{11A} = B_{26} C_9 E_{37} F_7 M_7 N_{24} N_{28} R_5 V_8 W_{116}, \text{ where}$$

<u>Component</u>	<u>Definition</u>
B_{26}	Fuselage: forebody per Rockwell lines VL70-000143B; mid-body per lines -000200, -000205 and -006089; aft body per lines -000145, (Model drawing SS-A00147, Release 12)
C_9	Canopy per Rockwell lines VL70-000143B (Model drawing SS-A00147, Release 12)

CONFIGURATIONS INVESTIGATED (Concluded)

- E₃₇ Alternate slotted elevons per Rockwell lines VL70-000200, -006089, -006092 and figure 4A of SAS/AERO/76-643, dated October 31, 1973 (Model drawing SS-A00147, Release 6).
- F₇ Body flap per Rockwell lines VL70-000145 (Model drawing SS-A00147, Release 12)
- M₇ OMS/RCS pods per Rockwell lines VL70-000145 (Model drawing SS-A00147, Release 12)
- N₂₄ MPS nozzles; contour per measurements made on Rockwell configuration control drawing VL70-0050030A; location per configuration control drawing VL70-000140A (Model drawing SS-A00147, Release 12)
- N₂₈ OMS nozzles: contour per model drawing SS-A00106, release 5; location per Rockwell configuration control drawing VL70-000140A (Model drawing SS-A00147, Release 12)
- R₅ Rudder per Rockwell lines VL70-000146A (Model drawing SS-A00148, Release 6)
- V₈ Vertical tail per Rockwell lines VL70-000146A (Model drawing SS-A00148, Release 6)
- W₁₁₆ Wing per Rockwell lines VL70-000200, -006089, and -006092 (Model drawing SS-A00148, Release 6)

INSTRUMENTATION

The Orbiter was mounted on the NASA/ARC 1.5-inch diameter Task MKIIE internal strain gage balance. The balance center was located at model station $X_0 = 15.989$, $Y_0 = 0.0$, and $Z_0 = 5.85$ inches.

A NASA/ARC dangleometer recorded BOR pitch angle. Predetermined sting deflection rates (due to load) were added to these to determine model α and β .

When the model was base mounted on the straight sting, there were five (5) base, two (2) cavity, two (2) top surface, and three (3) vertical tail trailing edge pressure orifices. All taps, except the cavity pressure, were built into the model skin with 0.043-inch O.D. stubs at the model base. The same number of pressure taps were used for both base mounted and blade strut model installations.

TEST FACILITY DESCRIPTION

The 6- by 6-Foot Wind Tunnel of the NASA Ames Research Center is a closed-circuit, variable pressure facility. The test section has a slo floor and ceiling, allowing for continuous operation from Mach number 0 to 2.20 at stagnation pressures from 0.3 to 1.0 atmosphere for a stagna temperature of 560°R. These conditions allow Reynolds number variation from 1 to 5 million per foot and a dynamic pressure range from 200 to 1 pounds per square foot.

DATA REDUCTION

Standard NASA/ARC data reduction techniques were used with the following reference dimensions:

A_C	sting cavity area	0.0341 ft ²
b	reference wing span	1.171 ft
\bar{c}	reference M.A.C.	0.5935 ft
L_B	reference body length	1.613 ft
S	reference wing area	0.6053 ft ²
XMRP	longitudinal distance, model nose OML to moment reference center	12.6255 in
YMRP	lateral distance, plane of symmetry to moment reference center	0.0 in
ZMRP	vertical distance, FRP to moment reference center	-0.375 in

Fuselage and vertical tail base force coefficients were computed as follows:

$$C_{A_B} = - \sum_{i=1}^5 \frac{A_{Bi} C_{P_{Bi}}}{S} - \frac{A_c C_{P_c}}{S}$$

C_{A_B} = base axial-force coefficient

$$C_{A_V} = - \frac{\cos \Lambda_u}{S} (A_{V1} C_{P_{V1}} + A_{V2} C_{P_{V2}}) - \frac{\cos \Lambda_L}{S} A_{V3} C_{P_{V3}}$$

C_{A_V} = vertical tail base axial-force coefficient

$$C_{N_V} = \frac{\sin \Lambda_u}{S} (A_{V1} C_{P_{V1}} + A_{V2} C_{P_{V2}}) + \frac{\sin \Lambda_L}{S} (A_{V3} C_{P_{V3}})$$

DATA REDUCTION (Continued)

C_{N_V} = vertical tail base normal-force coefficient

$$C_{m_{V0.65}} l_B = - [A_{V1} C_{P_{V1}} (Z_{V1} \cos \Lambda_u + X_{V1} \sin \Lambda_u) + A_{V2} C_{P_{V2}} (Z_{V2} \cos \Lambda_u + X_{V2} \sin \Lambda_u) + A_{V3} C_{P_{V3}} (Z_{V3} \cos \Lambda_L + X_{V3} \sin \Lambda_L)] / \bar{c} S$$

where:

full - scale values

Symbol	Dimensions	All δ_{SB}	$\delta_{SB} = 25^\circ$	$\delta_{SB} = 55^\circ$	$\delta_{SB} =$
A_{V1}	ft ²		24.2	50.4	82.
A_{V2}	ft ²		32.3	67.4	109.
A_{V3}	ft ²		19.77	19.77	19.
A_{B1}	ft	48.0			
A_{B2}	ft	89.3			
A_{B3}	ft	45.9			
A_{B4}	ft	78.2			
A_{B5}	ft	12.4			
A_{C2}	in ²	151.56			
X_{V1}	in	581.1			
X_{V2}	in	531.9			
X_{V3}	in	432.2			
Z_{V1}	in	351.0			
Z_{V2}	in	251.1			
Z_{V3}	in	165.7			
Λ_u	deg.	26° 15'			
Λ_L	deg.	63° 51'			

DATA REDUCTION (Concluded)

$$CDV = CAV \cos \alpha + CNV \sin \alpha$$

$$CLV = CNV \cos \alpha - CAV \sin \alpha$$

$$CMVAFT = CMVFWD + (0.675 - 0.65) (l_B) CNV/\bar{c}$$

$$CLMAFT = CLMFWD + (0.675 - 0.65) (l_B) CN/\bar{c}$$

$$CDT = CD + CDV$$

$$CLT = CL + CLV$$

$$CAT = CA + CAV$$

$$CNT = CN + CNV$$

$$CMTFWD = CLMFWD + CMVFWD$$

$$CMTAFT = CLMAFT + CMVAFT$$

$$CAF = CAT - CAB$$

$$CDF = CAF \cos \alpha + CNT \sin \alpha$$

$$CDB = CDT - CDF$$

TABLE I.

[illegible]

TABLE II.

TEST: OA 59		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: POST TEST														
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS									
		A	B	δ_e	δ_{SB}		0.6	0.7	0.75	0.8	0.85	0.9	0.95	1.2	1.5	2.0										
RER 001	01A - N24 R5 Vg +	A	O	0	-11.7	-	36	6	5	35	3	34	1	33	32	31										
002	Strut + Dummy Slings						7			4		2		8												
003							30	29		28		27		26	25	24										
004							12	11		10		9														
005							16	15		14		13		18	17	23										
006							20					19		22		21										
007							42	41		40		39		38		37										
008							48	47		46		45		44		43										
009	01A - N24 R5 Vg +	A	O	0	-11.7	-	84			83		82		81	80	79										
010	Strut						68			67		66		65	64	63										
011							62	61		60		59		58	57	56										
012	01A - R5 Vg + Strut	A	O	0	-11.7	-	94	93	92	91	90	89	88	87	86	85										
013							115	114		113		112		111	110	109										
014							101	100		99		98		97	96	95										
015							108	107		106		105		104	103	102										
016							78	77		76		75		74	73	72										
017														71	70	69										
018							55	54		53		52		51	50	49										
		7	13	19	25	31	37	43	49	55	61	67	75	76												
R DATA		COEFFICIENTS										IDVAR (1) IDVAR (2) NDV														
A OR B		SCHEDULES																								
		A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 0 DEG.																								
		B = -5, -3, -1, 0, 1, 3, 5, 7, 10, 15, 0 DEG.																								

TABLE II. (Concluded)

[illegible]

TABLE III. - MODEL DIMENSIONAL DATA

*REVISED 4/24/74

MODEL COMPONENT: Body (B26)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter FuselageNOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to
accept W₁₁₆.Model Scale = 0.015Model Drawing No. SS-A00147DRAWING NUMBER:VL70-000193VL70-000140A , VL70-000140BDIMENSIONS:FULL-SCALEMODEL SCALELength (Body Fwd Sta $X_0 = 235$) - in.1293.319.400* Max. Width (at $X_0 = 1528.3$) - In.264.03.960Max. Depth (at $X_0 = 1464$) - in.250.03.75

Fineness Ratio

0.263570.26357Area - ft²

Max. Cross-Sectional

340.88462.07670

Planform

Wetted

Base

TABLE III. - Continued.

*REVISED 4 24 74

MODEL COMPONENT: Canopy (C₉)

GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Fuselage

Model Drawing No. SS-A00147

Model Scale = 0.015

DRAWING NUMBER VL70-000140A
VL70-000143A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
* Length ($X_0=434.643$ to 578)	<u>143.357</u>	<u>2.150</u>
Max Width (@ $X_0=513.127$)	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0=485.0$)	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

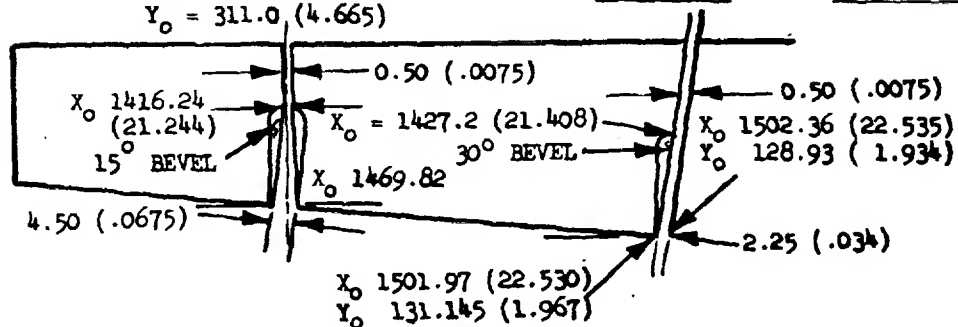
TABLE III. - Continued.

*REVISED 4/24/74

MODEL COMPONENT: ALTERNATE SLOTTED ELEVON - E₃₇GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevon.E₃₇ is a slotted version of E₂₆. Data is for one side.MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12DRAWING NUMBER: VL70-000200, -006089, -006092 and
Fig. 4A of SAS/AERO/76-643

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>10.056</u>	<u>10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
* Area Moment (Product of Area & \bar{c}) Ft ³	<u>1587.25</u>	<u>0.00536</u>
* Mean Aerodynamic Chord - In.	<u>90.7</u>	<u>1.361</u>

$$Y_0 = 311.0 (4.665)$$



MODEL COMPONENT: Body Flap (F7)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Body FlapNOTE: Body flap has variable centerline deflection of $+13.75^\circ$ and -14.25° from null position. Hinge line located at $X_0 = 1528.3$, $Z_0 = 284.3$ Model Drawing No. SS-A00147Model Scale = 0.015

DRAWING NUMBER

VL70-000140A, VL70-000145DIMENSION:FULL SCALEMODEL SCALELength ($X_0 = 1520$ to $X_0 = 1613$) - IN.93.0001.395

Max Width - IN.

262.0003.930Max Depth ($X_0 = 1520$) - IN.23.0000.345

Fineness Ratio

Area - Ft^2

Max Cross-Sectional

Planform

150.5250.0339

Wetted

Base

41.84722.00941

TABLE III. - Continued.

MODEL COMPONENT: OMS Pod (M₇)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter OMS-Pod

Model Scale = 0.015

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140AVL70-000145DIMENSION:FULL SCALEMODEL SCALELength (OMS Fwd Sta $X_0=1233.0$) - IN.327.0004.905Max Width (@ $X_0=1450.0$) - IN.94.51.418Max Depth (@ $X_0=1493.0$) - IN.109.0001.635

Fineness Ratio

Area

Max Cross-Sectional

Planform

Wetted

Base

TABLE III. - Continued.

MODEL DIMENSIONAL DATA

MODEL COMPONENT: MPS NOZZLES - N₂₄GENERAL DESCRIPTION: Configuration 140A/B Orbiter MPS NozzlesMODEL SCALE: 0.015MODEL DRAWING: SS-A00147, RELEASE 12DRAWING NUMBER: VL70-005030A, VL70-000140A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>2.355</u>
Throat to Exit Plane	<u>99.2</u>	<u>1.488</u>
Diameter - In.		
Exit	<u>91.000</u>	<u>1.410</u>
Throat		
Inlet		
Area - ft ²		
Exit	<u>45.16585</u>	<u>0.0102</u>
Throat		
Gimbal Point (Station) - In.		
Upper Nozzle		
X	<u>1445.0</u>	<u>21.675</u>
Y	<u>0.0</u>	<u>0.0</u>
Z	<u>443.0</u>	<u>6.645</u>
Lower Nozzles		
X	<u>1468.16996</u>	<u>22.023</u>
Y	<u>53.0000</u>	<u>0.795</u>
Z	<u>342.63988</u>	<u>5.140</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16°</u>	<u>16°</u>
Yaw	<u>0°</u>	<u>0°</u>
Lower Nozzle		
Pitch	<u>10°</u>	<u>10°</u>
Yaw	<u>3.5°</u>	<u>3.5°</u>

TABLE III. - Continued.

COMPONENT: OMS Nozzle (N₂g)AL DESCRIPTION: Configuration 140 A/B Orbiter OMS NozzleSCALE = .015Model Drawing No. SS-A00147NG NO. VL70-000140ACTIONSFULL SCALEMODEL SCALE

Mach No. _____

Length ~ in.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter ~ in.

Exit

Throat

Inlet

Area ~ ft².

Exit

Throat

Gimbal Point (station) ~ in.

X

1518.022.77

Y

+ 88.01.32

Z

492.0 -7.38

Wall Position ~ deg.

Pitch

15° 49'15° 49'

Yaw (Outboard)

12° 17'12° 17'

TABLE III. - Continued.

*REVISED 4/24/74

MODEL COMPONENT: Rudder (R₅)GENERAL DESCRIPTION: Configuration 140 A/B Orbiter Rudder

Model Scale = 0.015

Model Drawing No. SS-A00148

DRAWING NUMBER:

VL70-000095, VL70-000146ADIMENSIONS:FULL-SCALEMODEL SCALE* Area - FT²100.150.0225

Span (equivalent) - IN.

201.03.015

Inb'd equivalent chord

91.5851.374

Outb'd equivalent chord

50.8330.762Ratio movable surface chord/
total surface chord

At Inb'd equiv. chord

0.4000.400

At Outb'd equiv. chord

0.4000.400

Sweep Back Angles, degrees

Leading Edge

34.8334.83

Tailing Edge

26.2526.25

Hingeline

34.8334.83* Area Moment (Product of Area & \bar{C}) - FT³610.92.0021

* Product of Area and Mean Chord - In.

73.21.098

*REVISED 4/24/74

MODEL COMPONENT: Vertical Tail (V8)RAL DESCRIPTION: Configuration 140 A/B Orbiter Vertical TailNOTE: Similar to V5 with radius on TE upper corner and LE lower corner
where vertical meets fuselage.

Model Scale = 0.015

Model Drawing No. SS-A00148

ING NUMBER:

VL70-000140A

VL70-000146A

NSIONS:

FULL-SCALE

MODEL SCALE

OTAL DATA

Area (Theo) Ft ²	413.253	0.09298
Planform		
Span (Theo) In	315.720	4.73580
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.40399	0.40399
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
*Trailing Edge	26.2	26.2
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	4.02750
Tip (Theo) WP	108.470	1.62705
MAC	199.80756	2.99711
Fus. Sta. of .25 MAC	1463.50	21.95250
W. P. of .25 MAC	635.522	9.53283
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.00	10.00
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius (Min) - IN.	2.00	0.0300
Void Area	13.17	0.00296
Blanketed Area	0.00	0.00

TABLE III. - Concluded.

*REVISED 4/24/74

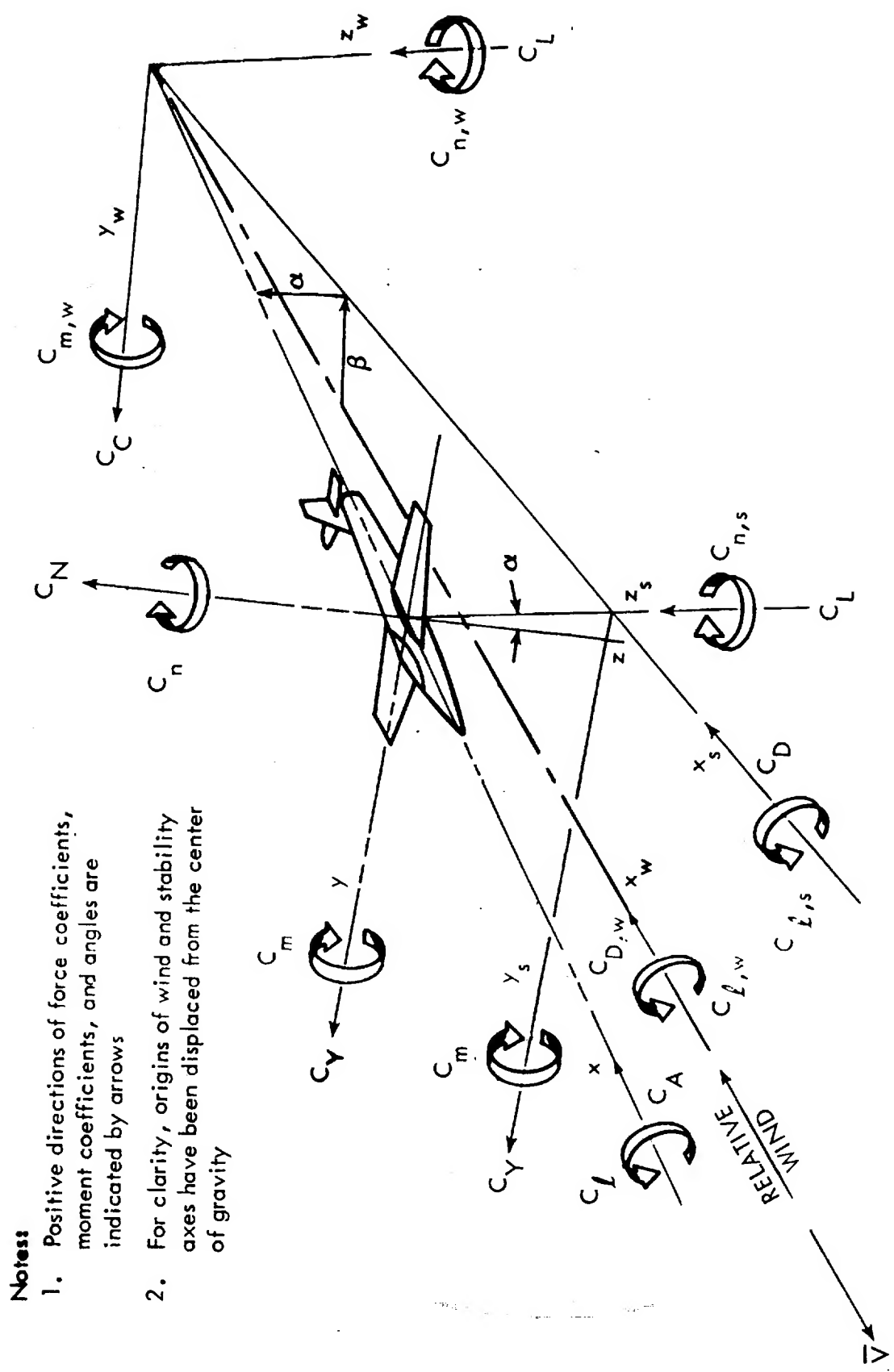
MODEL COMPONENT: <u>WING-W₁₁₆</u>		
GENERAL DESCRIPTION: <u>Configuration 140A/B Orbiter Wing</u>		
NOTE: Identical to W ₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing.		
MODEL SCALE: 0.015	MODEL DRAWING NO. SS-A00148	
TEST NO.	VL70-000140B	
	DWG. NO. VL70-000200	
<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo.) Ft ²		
Planform	2690.00	0.6053
Span (Theo) In.	936.6816	14.050
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+ 3.000	+ 3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	10.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.2429	10.339
Tip, (Theo) B.P.	187.8486	2.068
MAC	474.8117	7.122
Fus. Sta. of .25 MAC	1126.83	16.902
W.P. of .25 MAC	290.58	4.359
B.L. of .25 MAC	182.13	2.732
<u>EXPOSED DATA</u>		
Area (Theo) Ft ²	1751.50	0.3941
Span, (Theo) In. BP108	720.68	10.810
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	8.431
Tip 1.00 b	137.85	2.06
MAC	392.83	5.892
Fus. Sta. of .25 MAC	1185.98	17.790
W.P. of .25 MAC	294.30	4.415
B.L. of .25 MAC	251.77	3.777
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2}$ =	0.113	0.113
Tip $\frac{b}{2}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft ²	113.18	0.0255
Leading Edge Intersects Fus M. L. @ Sta	500.00	7.500
Leading Edge Intersects Wing @ Sta	1024.00	15.360

TABLE IV. DATASET COMBINATIONS USED TO OBTAIN INCREMENTAL DATA

RESULTING DATASET	MINUEND DATASET	SUBTRAHEND DATASET	RESULTING DATA	α	δ_e	δ_{BF}
Q,S,T,U,V,WERO12 3 4 5 6 ↓ TER018	RER001 RER003 RER005 RER006 RER007 RER008	RER012 RER013 RER014 RER015 RER016 RER018	Nozzle increment + sting interference tars ↓	Vary Vary Vary Vary Vary 10	0 15 0 0 0 0	-11.7 -11.7 16.3 0 -11.7 -11.7
Q,S,T,U,V,WERO09 TER010 TER011	RER001 RER007 RER008	RER009 RER010 RER011	Sting interference tare ↓	Vary 0 10	0 0 0	-11.7 -11.7 -11.7
1,2,3,TER019 20 22 23 ↓ TER024	RER019,12 RER020,13 RER022,15 RER023,14 RER024,18	RER001 RER003 RER006 RER005 RER008	Sting mounted nozzle-off data with corrections applied ↓	Vary Vary Vary Vary 10	0 15 0 0 0	-11.7 -11.7 0 16.3 -11.7

NOTE:

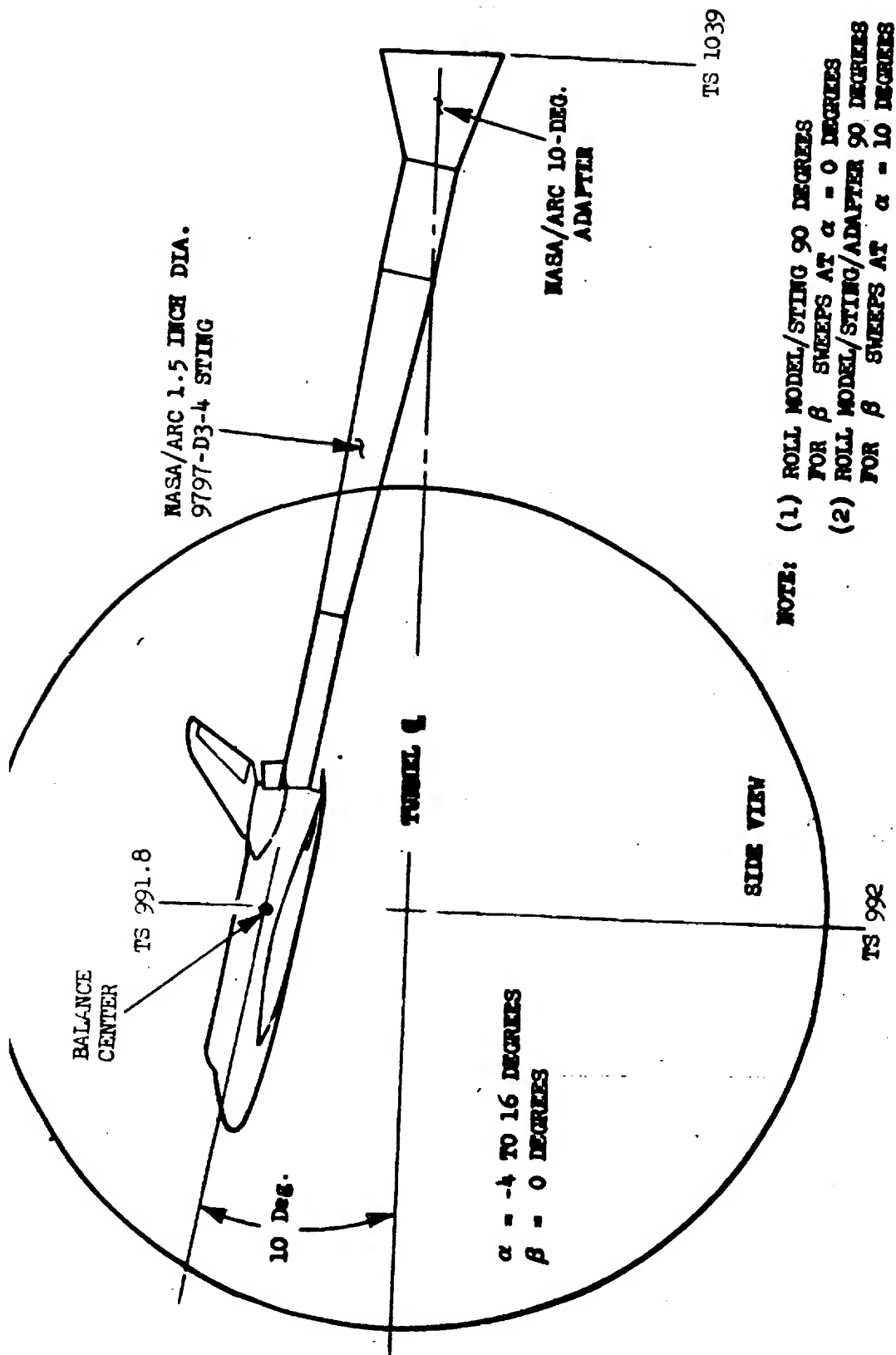
- VERTICAL TAIL WAS REPLACED BY A NON-METRIC BLADE STRUT FOR STRUT MOUNTING. INCREMENTAL VERTICAL TAIL FORCES WERE ESTIMATED FROM PRESSURES MEASURED IN THE SPEED BRAKE BASE REGION.
- [NOZZLE INCREMENT + STING INTERFERENCE TARE] = [MODEL + STRUT + DUMMY STING] - [MODEL + STRUT + NOZZLE]
- [STING INTERFERENCE TARE] = [MODEL + STRUT + DUMMY STING] - [MODEL + STRUT]
- [CORRECTED DATA] = [MODEL STING-MOUNTED] - [NOZZLE INCREMENT + STING INTERFERENCE TARE]



Notes:

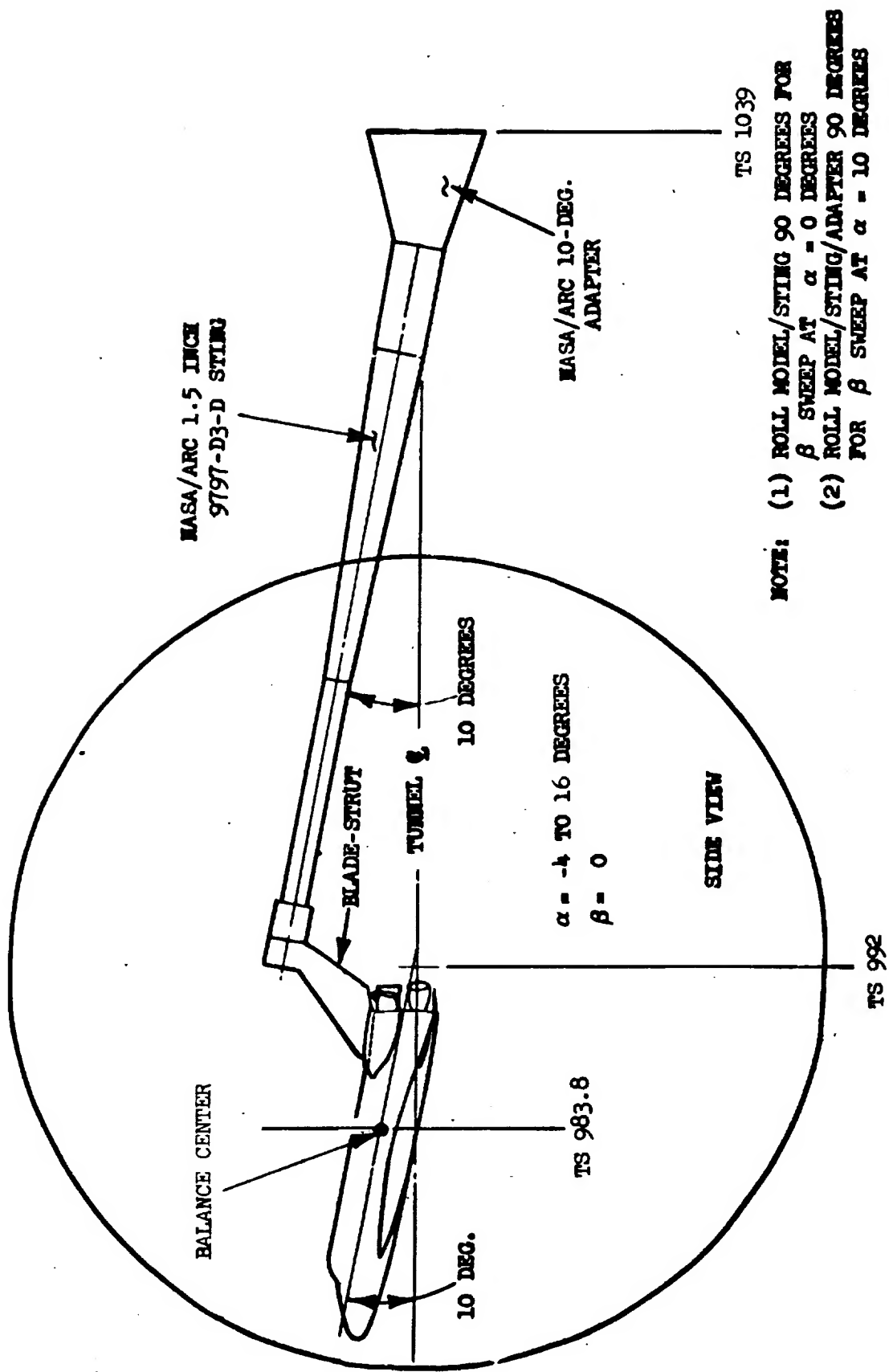
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

Figure 1. - Axis systems.



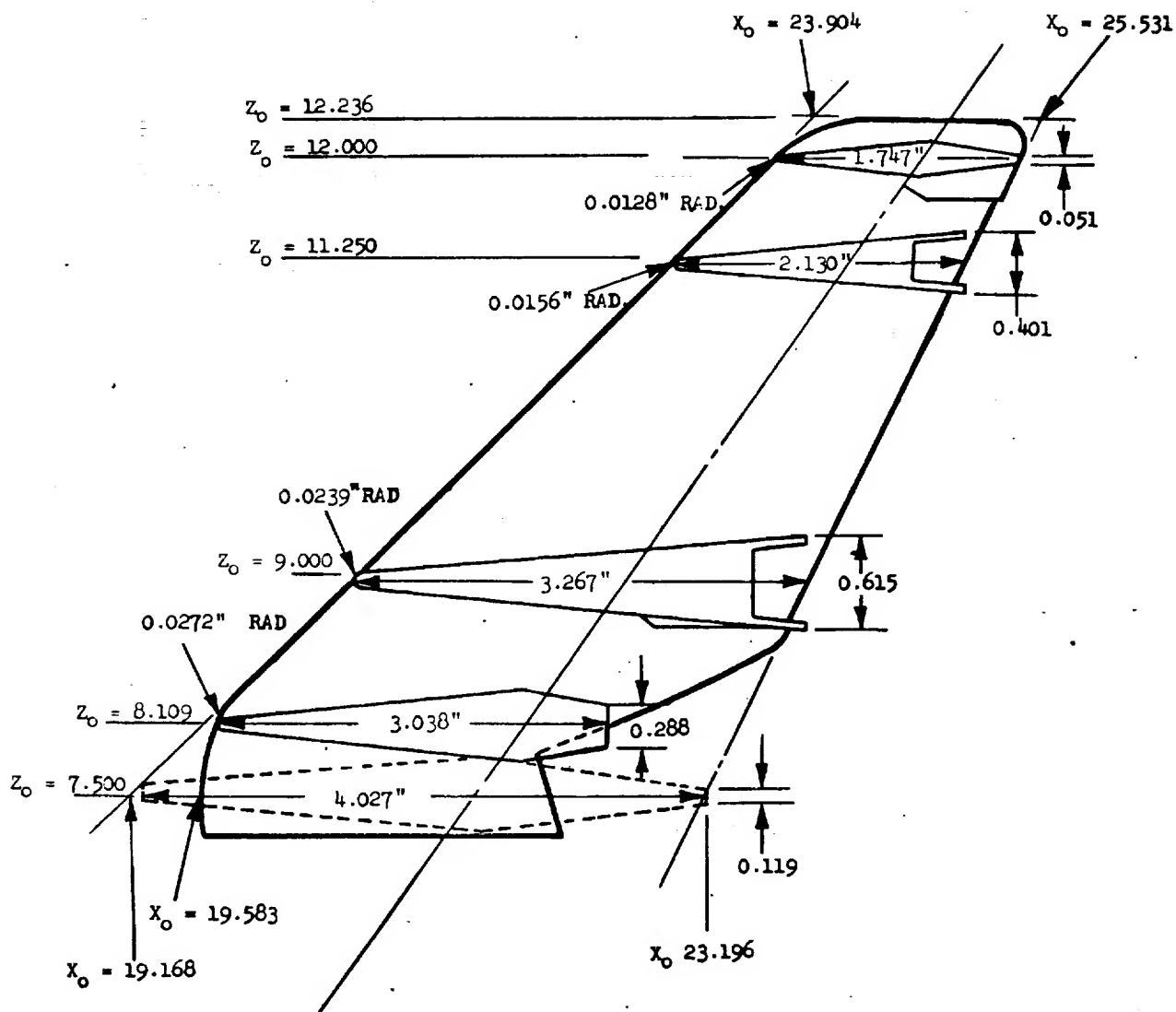
a. Base Mount Tunnel Installation for Test OA59

Figure 2. - Model sketches.



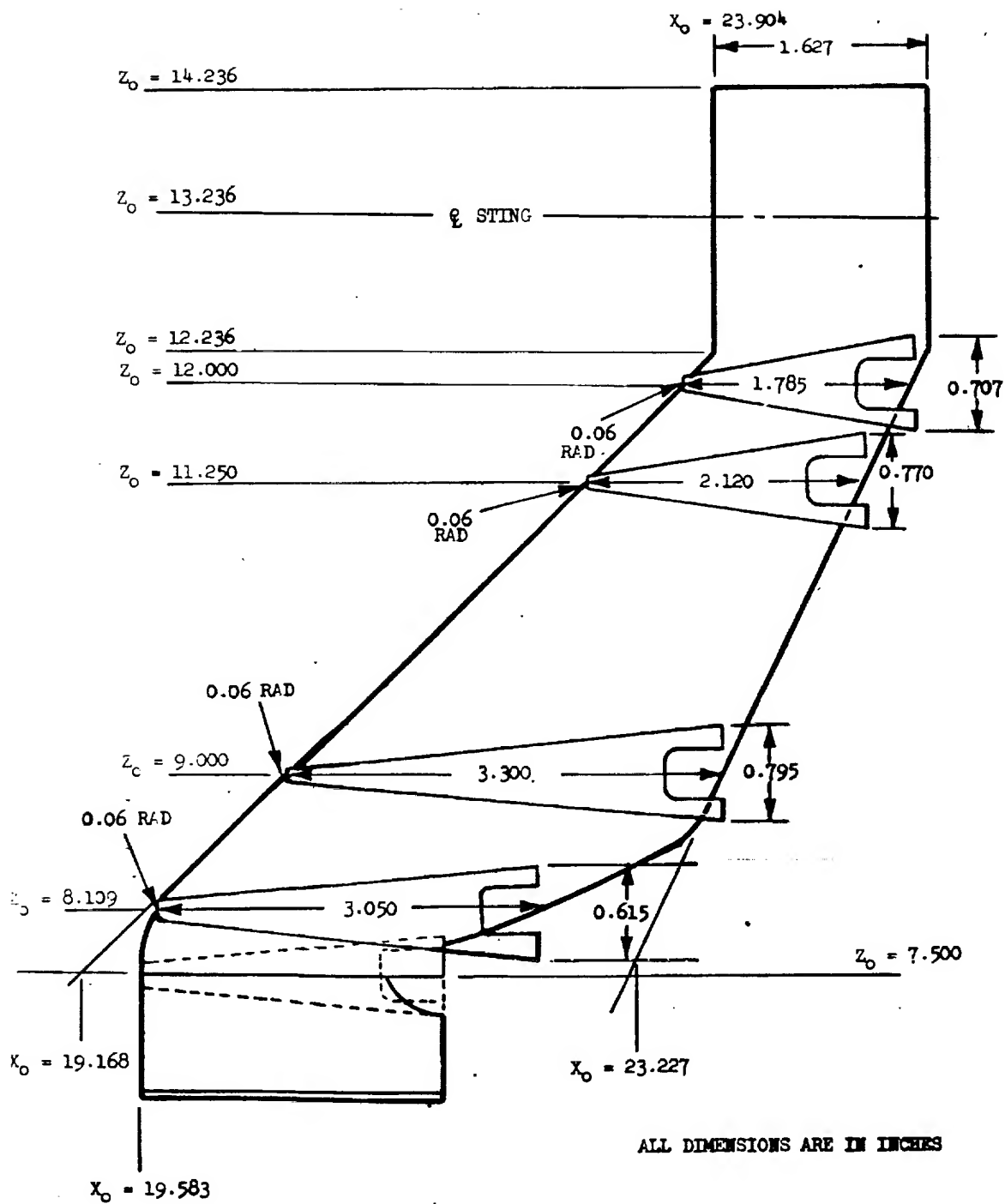
b. Blade-Strut Mount Tunnel Installation for Test OA59

Figure 2. - Continued.



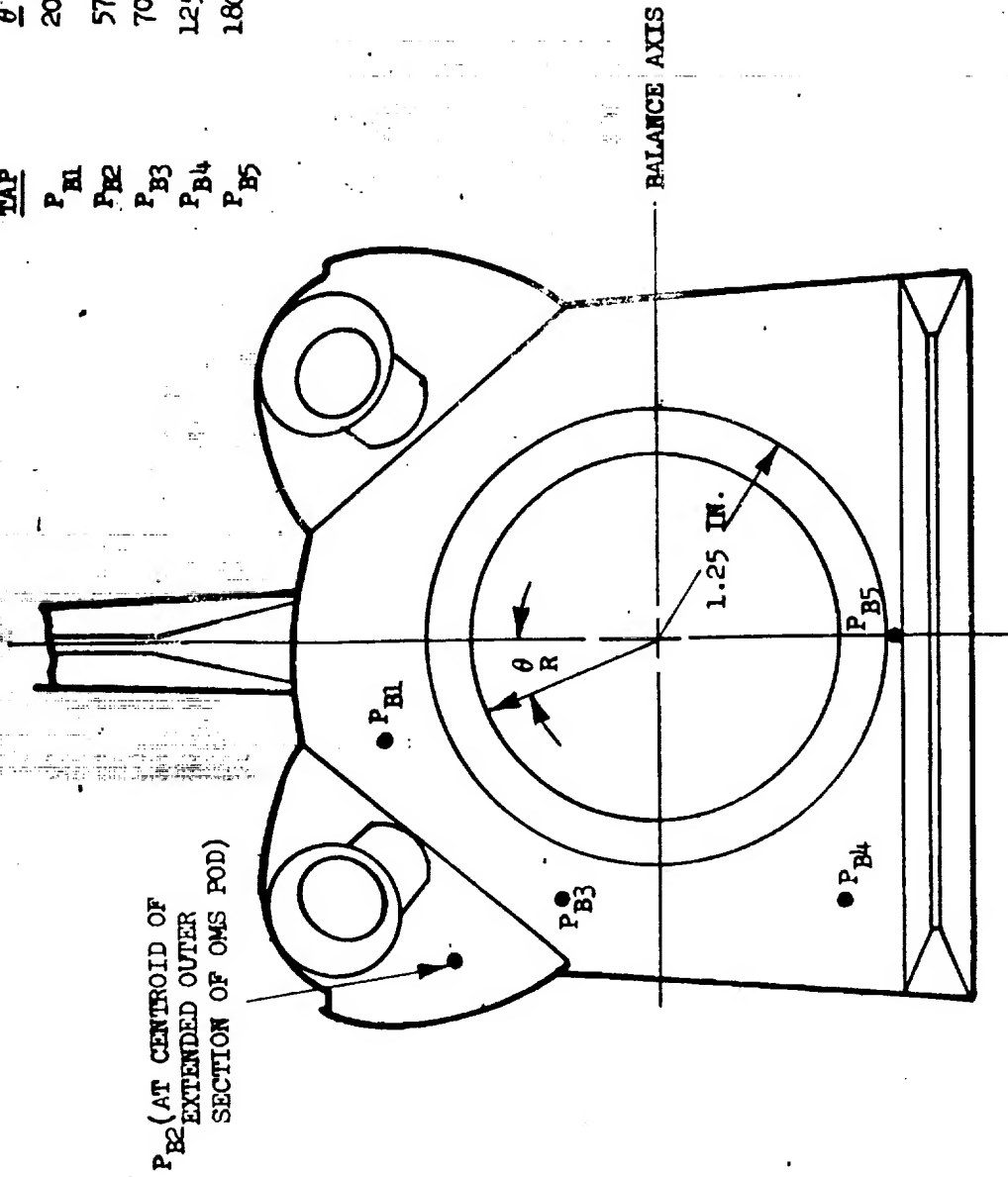
d. Vertical Tail Cross-Sections 24.92° Speed Brake

Figure 2. - Continued.

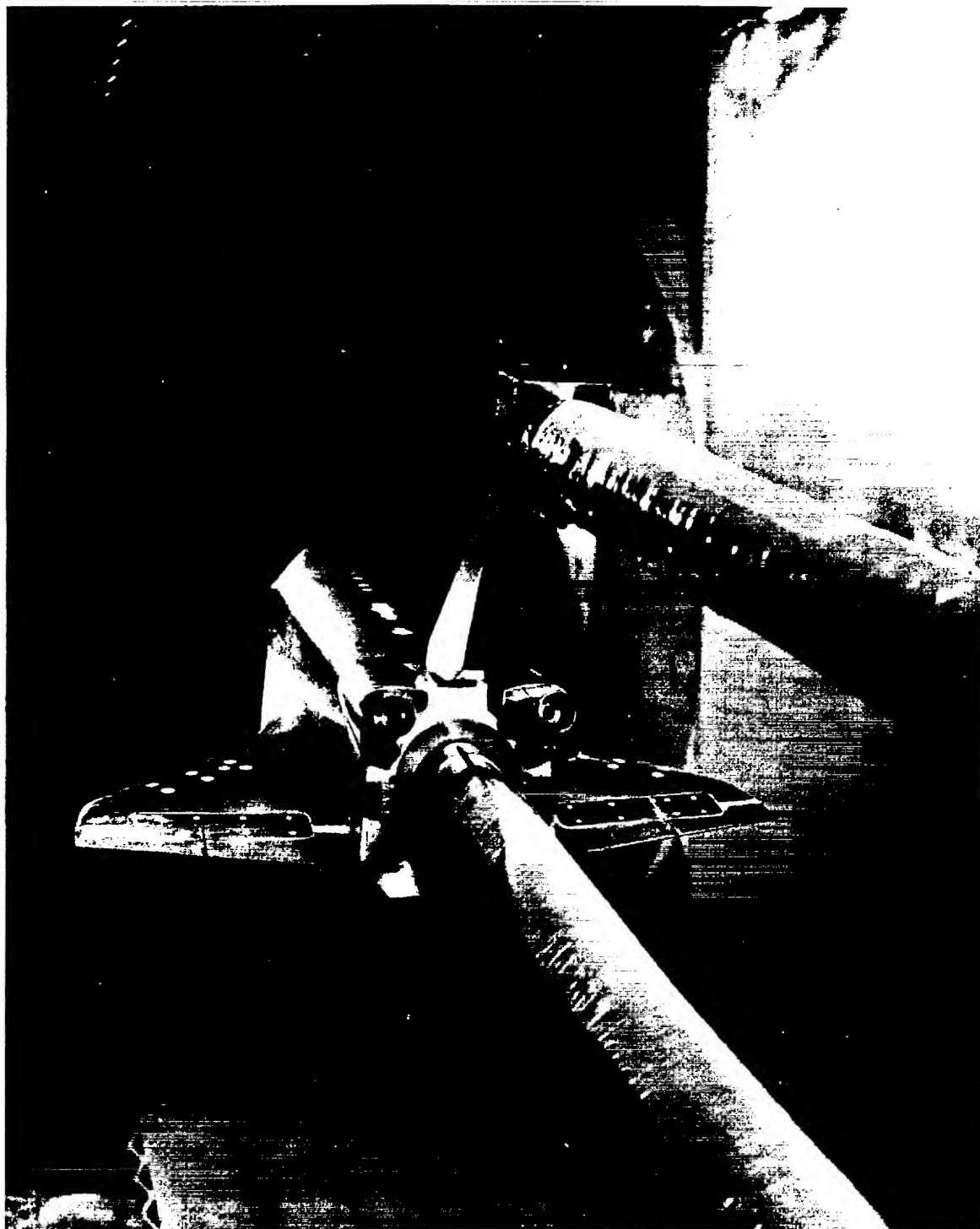


e. Blade-Strut used for Test OA59
Figure 2. - Continued.

TAP	θ	R
P _{B1}	20°	1.60 IN.
P _{B2}	57°	2.10 IN.
P _{B3}	70°	1.50 IN.
P _{B4}	125°	1.76 IN.
P _{B5}	180°	1.29 IN.

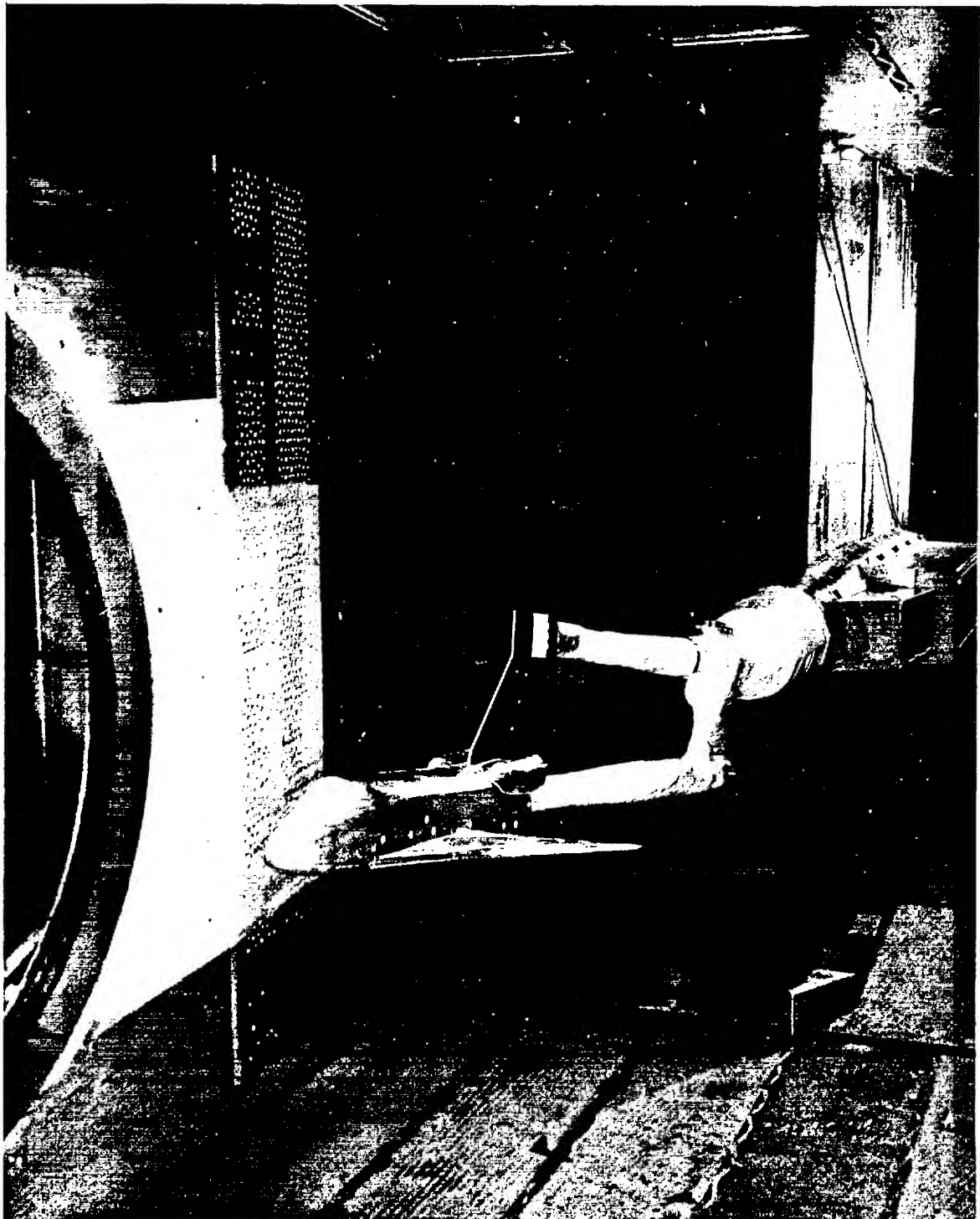


f. Base and Cavity Pressure Locations
Figure 2. - Concluded.



a. Rear 3/4 View

Figure 3. - Model installation photographs.



b. Front 3/4 View

Figure 3. - Concluded.

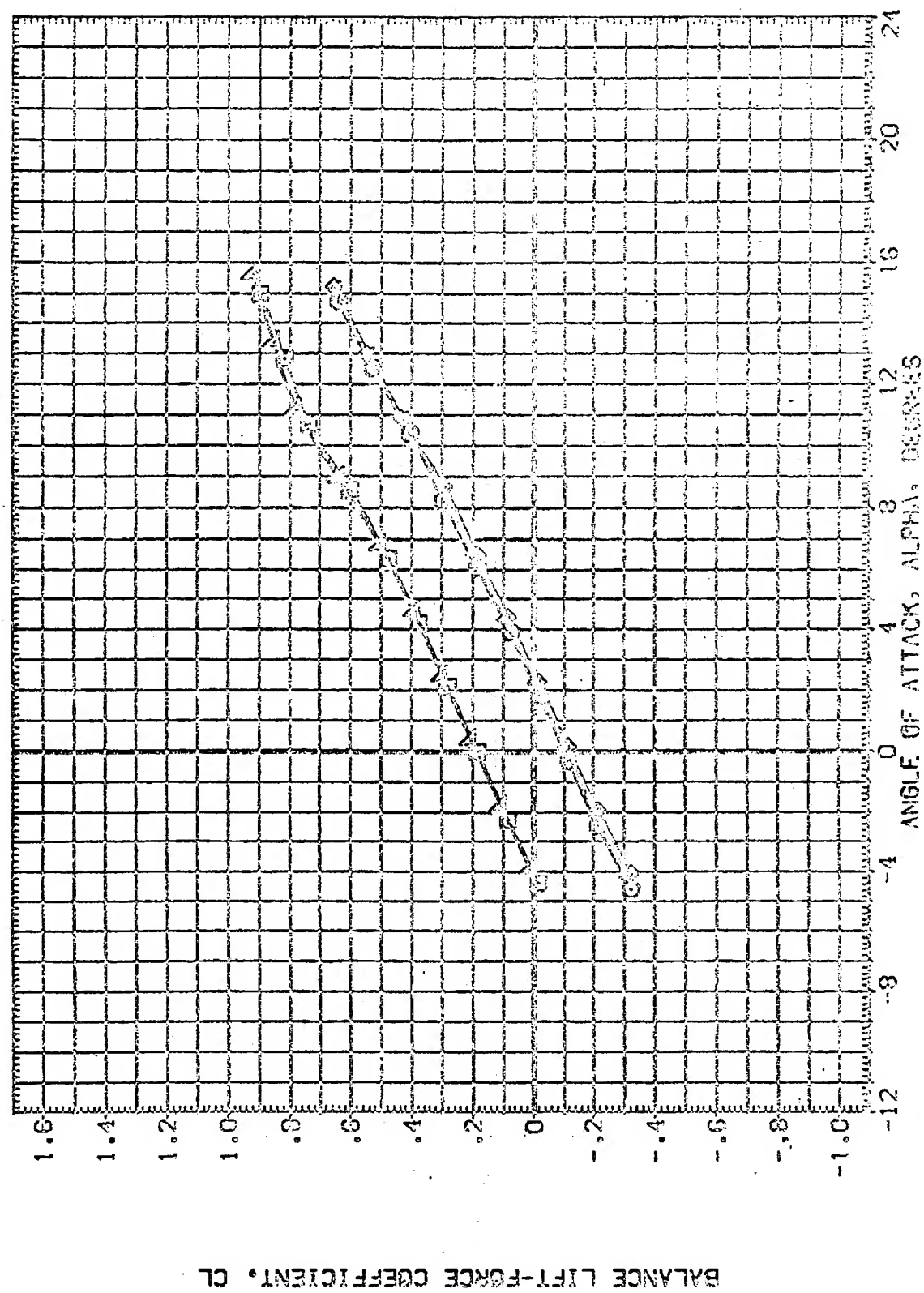
DATA FIGURES

VOLUME I

FIGURES 4 - 9

(REFER TO VOLUME II
FOR FIGURES 10-15)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOCLAP	REFERENCE INFORMATION
(CER001)	ARC 63-703 2AS9 DAI1A-(N24 RS V3)+STRUT+DUM STN3	.000	.000	-11.700	SREF .5053 50.FT.
(CER002)	ARC 63-703 2AS9 DAI1A-(N24 RS V3)+STRUT+DUM STN3	.000	.000	-11.700	LREF .5935 FT.
(CER003)	ARC 63-703 2AS9 DAI1A-(N24 RS V3)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 63-703 2AS9 DAI1A-(RS V3)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 63-703 2AS9 DAI1A-(RS V3)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



BALANCE LIFT-FORCE COEFFICIENT, CL

FIG. 4 ELEVON EFFECTS DURING CARE PITCH RUNS

{CER012} Δ ARC 63-703 QAS3 0A11A-(CS V31)*STRUT
 {CER013} ARC 63-703 QAS3 0A11A-(CS V31)*STRUT

.000 .000 -11.700
 .000 15.000 -11.700

DNES 1.1710 IN.
 XMRP 12.6265 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

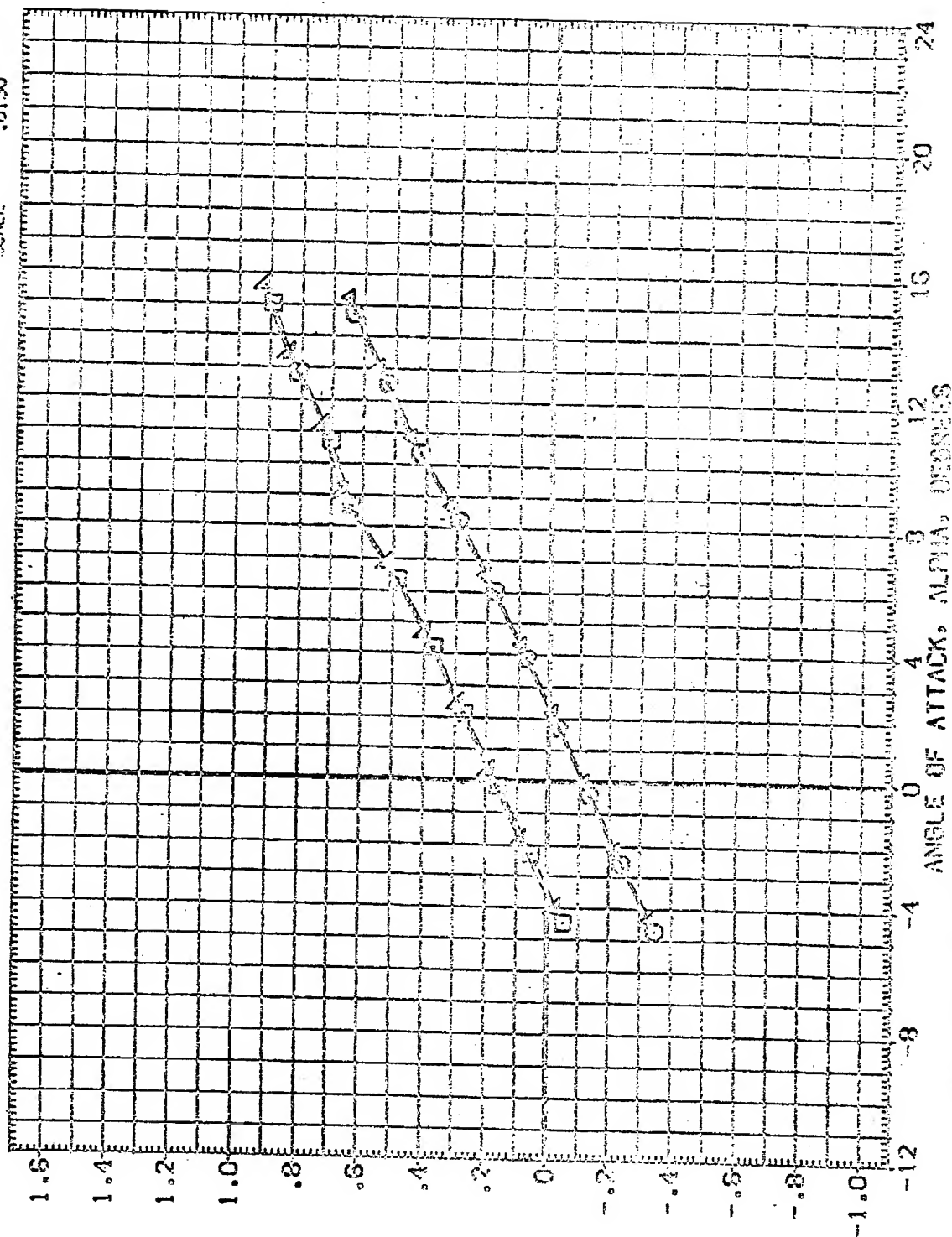


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 DMSO DATA- (N24 RS V01)+STRUT+DUM STNG

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DMSO DATA- (RS V01)+STRUT

(CER013) DATA NOT AVAILABLE

REF. ELEVON ROLAP

SREF .8053 SQ.FT.

LRREF .5935 FT.

BRREF 1.1710 FT.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.9750 IN.

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 DMSO DATA- (N24 RS V01)+STRUT+DUM STNG

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DMSO DATA- (RS V01)+STRUT

(CER013) DATA NOT AVAILABLE

REF. ELEVON ROLAP

SREF .8053 SQ.FT.

LRREF .5935 FT.

BRREF 1.1710 FT.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.9750 IN.

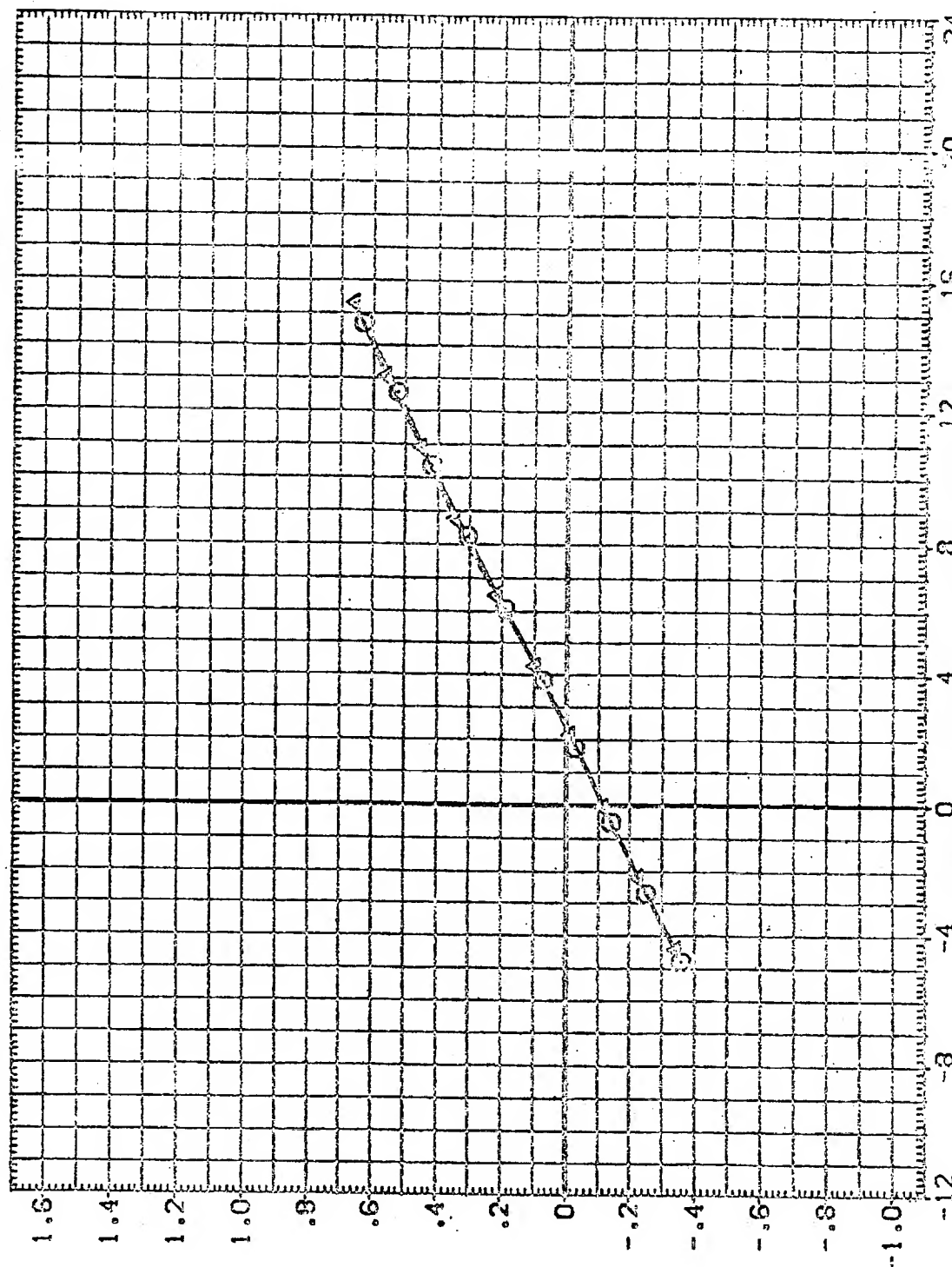


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CMACH = .75

YMRP ZMRP SCALE

.0000 IN.
-.3750 IN.
.0150

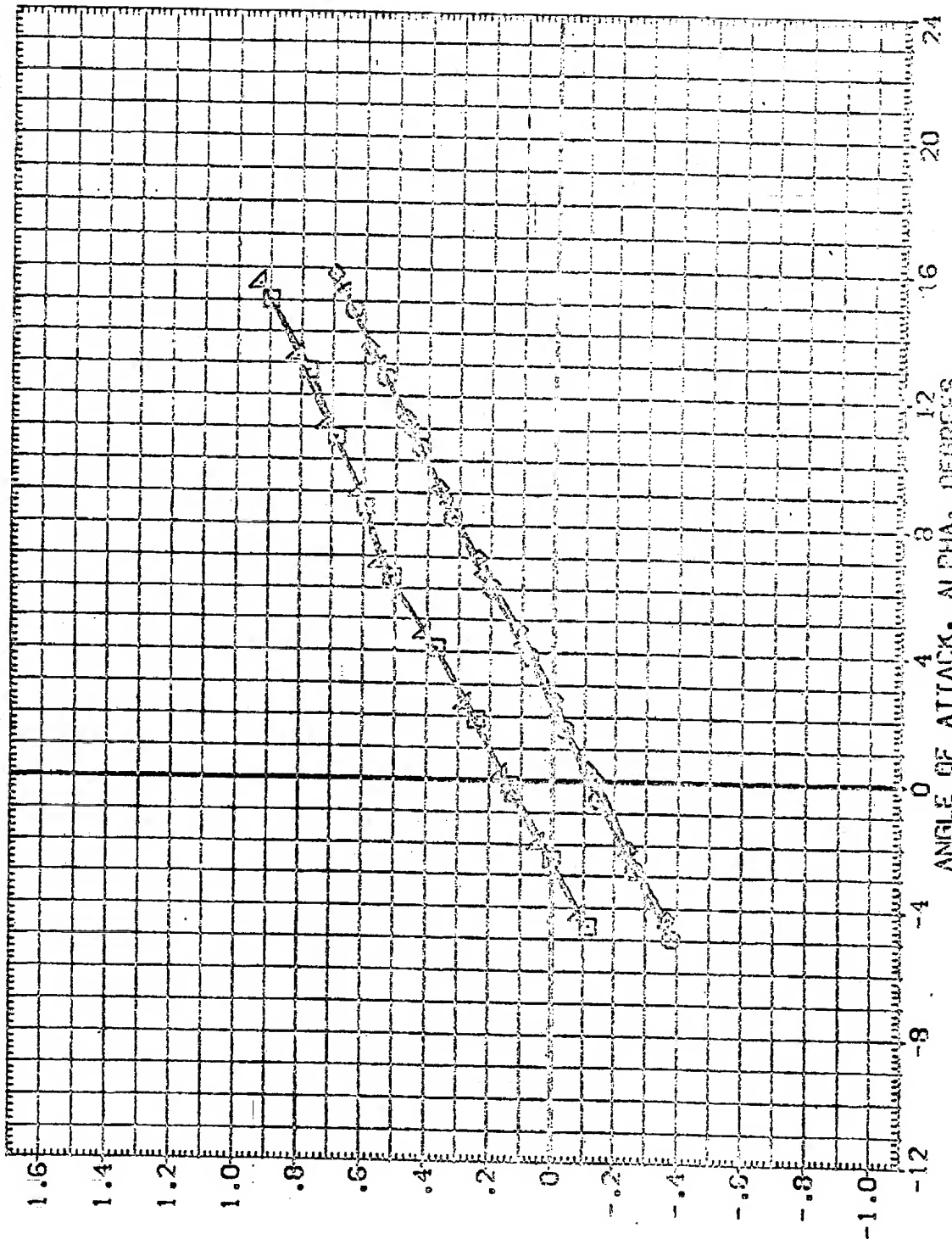
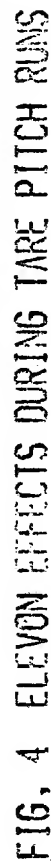


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CDJMACH = .80

$$\begin{array}{c} \dot{z} \\ \dot{z} \dot{z} \end{array}$$

$$(F)_{MACH} = .90$$

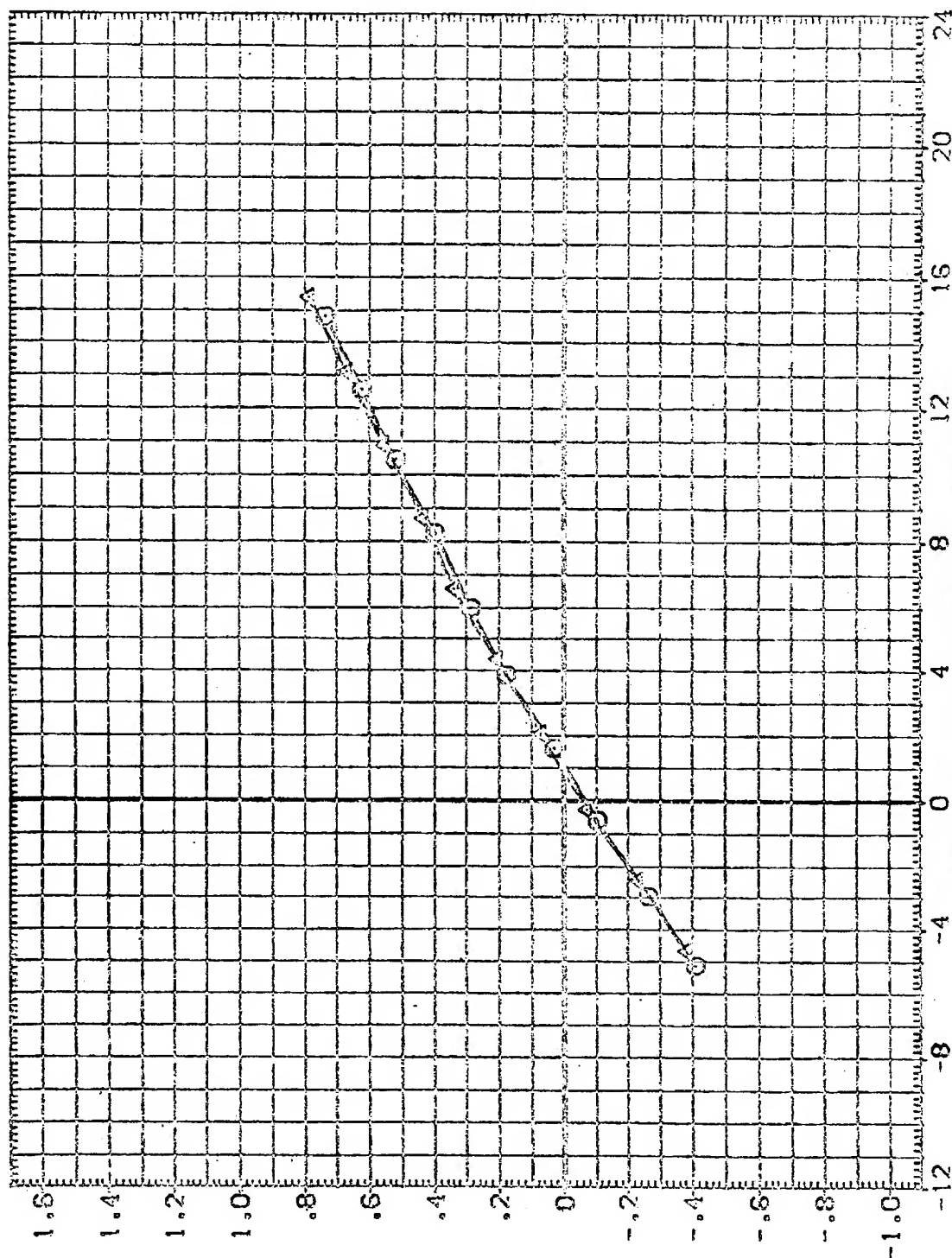
REFERENCE INFORMATION
 SREF .8053 SQ.FT.
 LREF .5935 FT.
 SREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER001) ARC SS-/09 DASH 0A11A-(M24 RS V3)+STRUT+DUM STING
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) ARC SS-/09 DASH 0A11A-(RS V3)+STRUT
 (CER013) DATA NOT AVAILABLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER001) ARC SS-/09 DASH 0A11A-(M24 RS V3)+STRUT+DUM STING
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) ARC SS-/09 DASH 0A11A-(RS V3)+STRUT
 (CER013) DATA NOT AVAILABLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER001) ARC SS-/09 DASH 0A11A-(M24 RS V3)+STRUT+DUM STING
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) ARC SS-/09 DASH 0A11A-(RS V3)+STRUT
 (CER013) DATA NOT AVAILABLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER001) ARC SS-/09 DASH 0A11A-(M24 RS V3)+STRUT+DUM STING
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) ARC SS-/09 DASH 0A11A-(RS V3)+STRUT
 (CER013) DATA NOT AVAILABLE



ANGLE OF ATTACK. ALPHA, DEGREES

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(GMACH = .95

{CER012} Δ ARC 66-709 0A59 0A11A-(RS V81)+STRUT
 {CER013} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

.000 .000 .000 -11.700
 .000 15.000 -11.700

XMRP
 YMRP
 ZMRP
 SCALE

12.6255 IN.
 .0000 IN.
 -.3750 IN.
 .0150

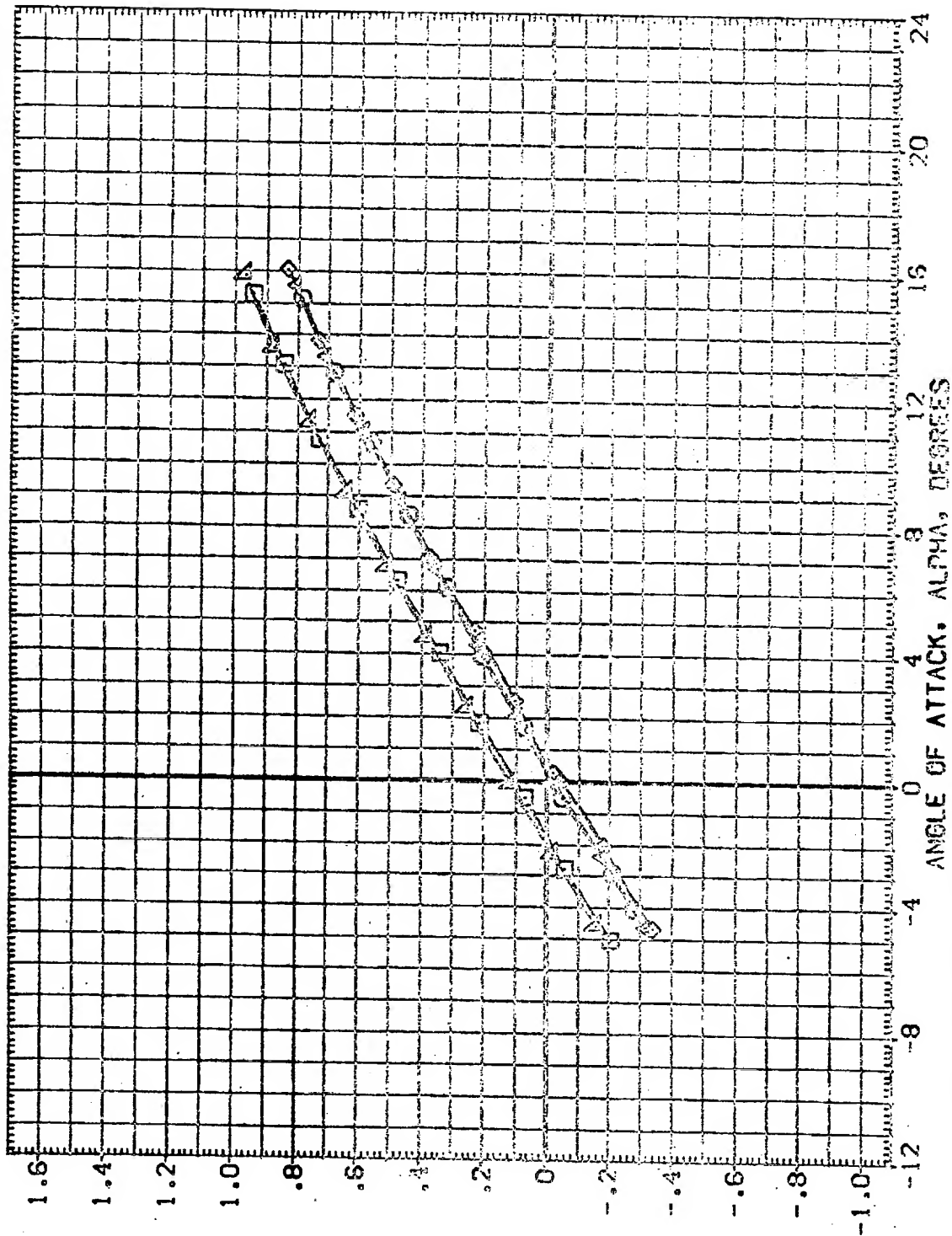


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) O O X Z ARC 65-703 DAS3 DALLA-(N24 RS V31)+STRUT+CLM STING

(CER003) O O X Z ARC 65-703 DAS3 DALLA-(N24 RS V31)+STRUT+CLM STING

(CER008) O O X Z ARC 65-703 DAS3 DALLA-(N24 RS V31)+STRUT

(CER012) O O X Z ARC 65-703 DAS3 DALLA-(RS V31)+STRUT

(CER013) O O X Z ARC 65-703 DAS3 DALLA-(RS V31)+STRUT

BETA ELEVON 20FLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF 5253 50.FT.

LREF 5333 FT.

BREF 1.1710 IN.

YMRP 12.6255 IN.

ZMRP -.3750 IN.

SCALE .0150

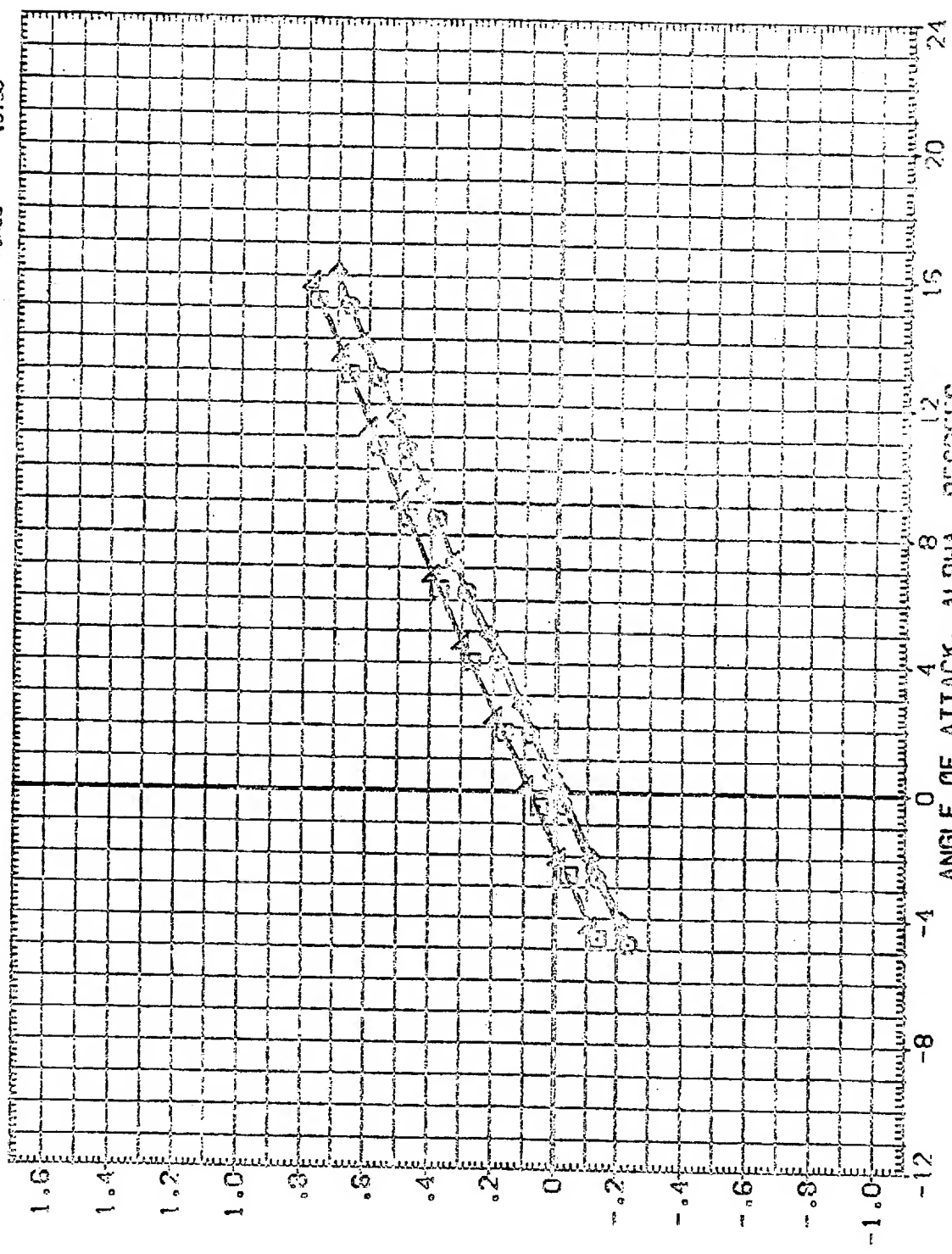


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL

(CER001) □

(CER003) □

(CER009) □

(CER012) □

(CER013) □

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

ARC 66-709 0A59 0A11A-(RS V8)+STRUT

ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA

ELEVEN

ISOFLAP

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

.000 -11.700

REFERENCE INFORMATION

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

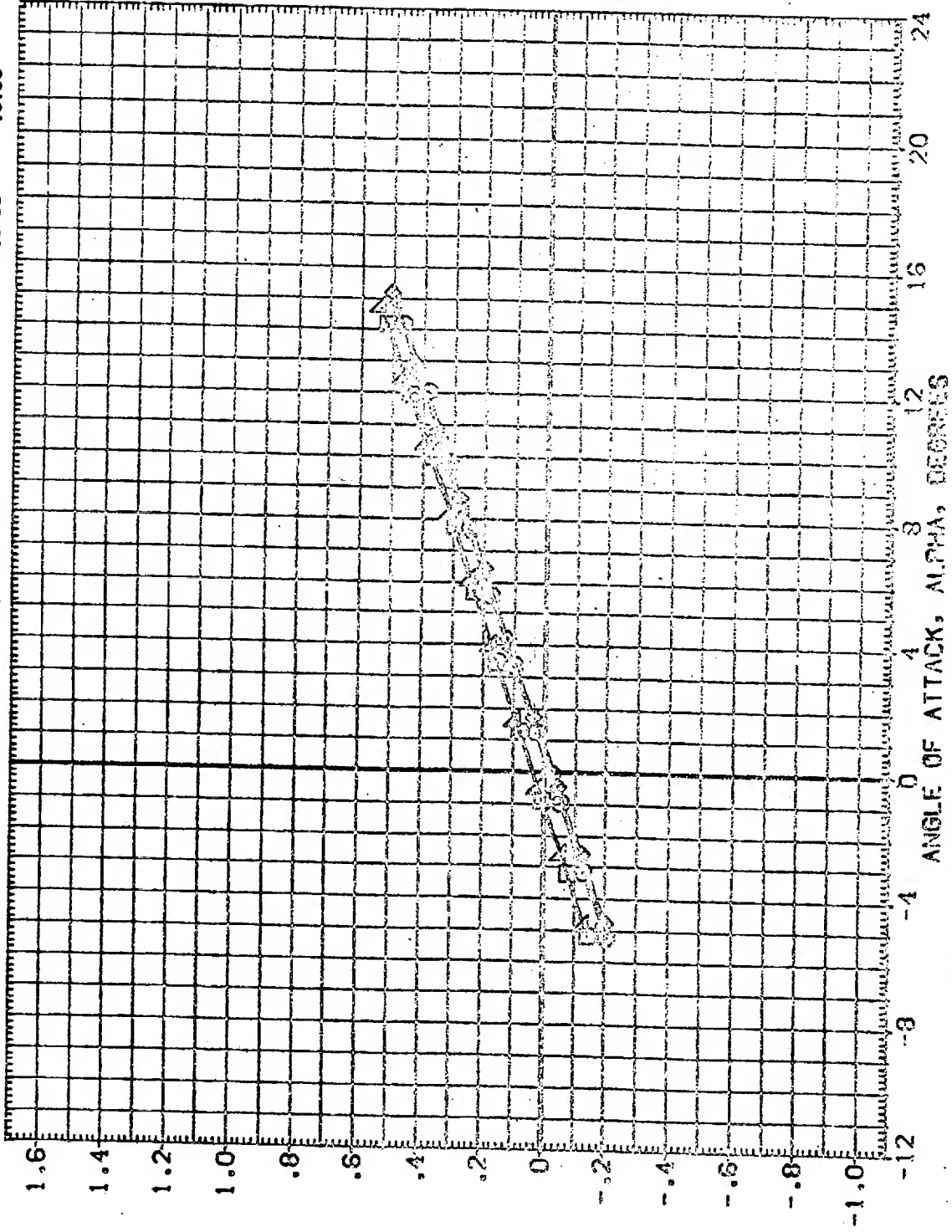


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

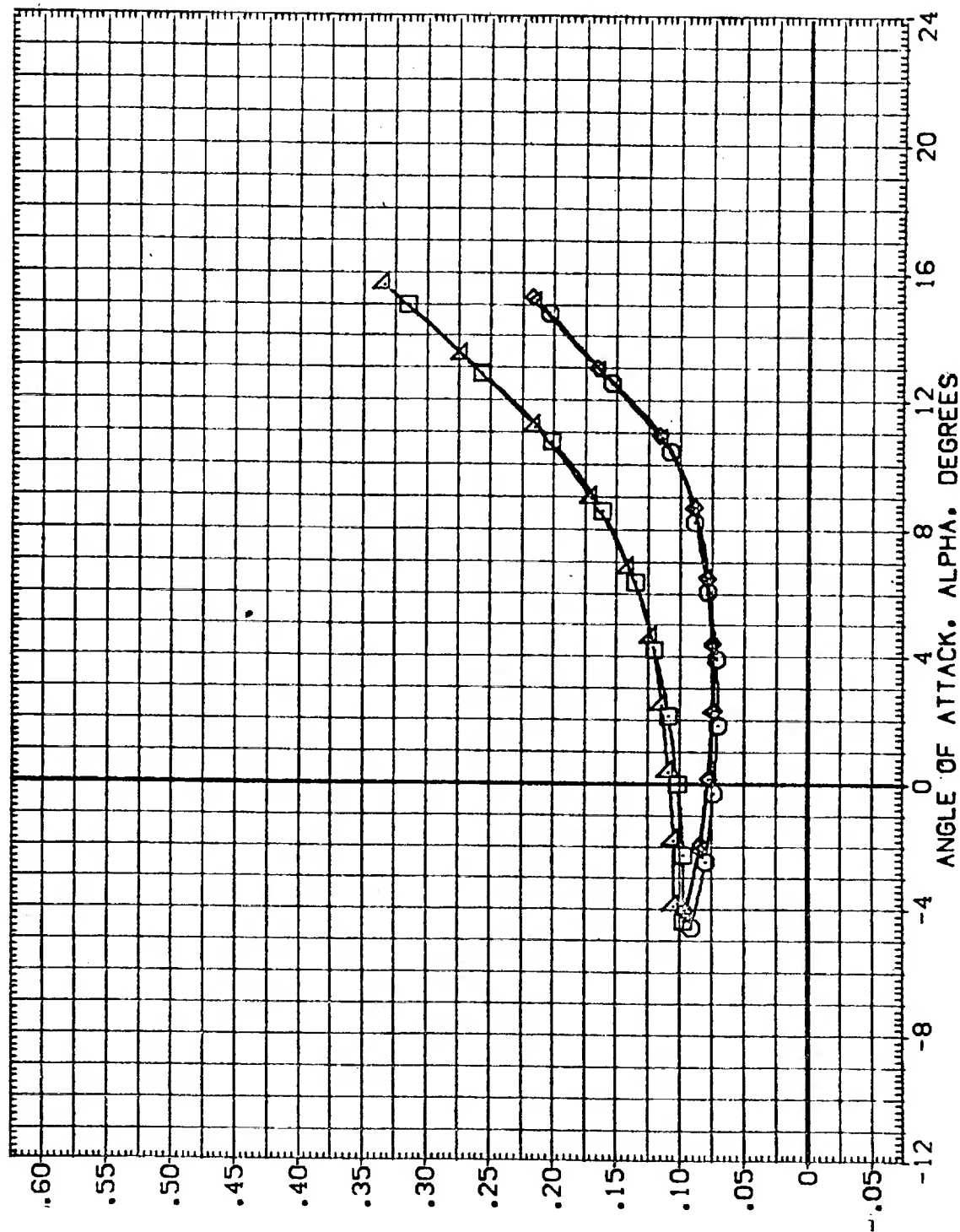


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL COMPUTATION DESCRIPTION REFERENCE INFORMATION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG SREF .6053 50.FT.

(CER003) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG LREF .5935 FT.

(CER009) DATA NOT AVAILABLE BREF 1.1710 IN.

(CER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT YMRP .0000 IN.

(CER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT ZMRP -.3750 IN.

SCALE .0150

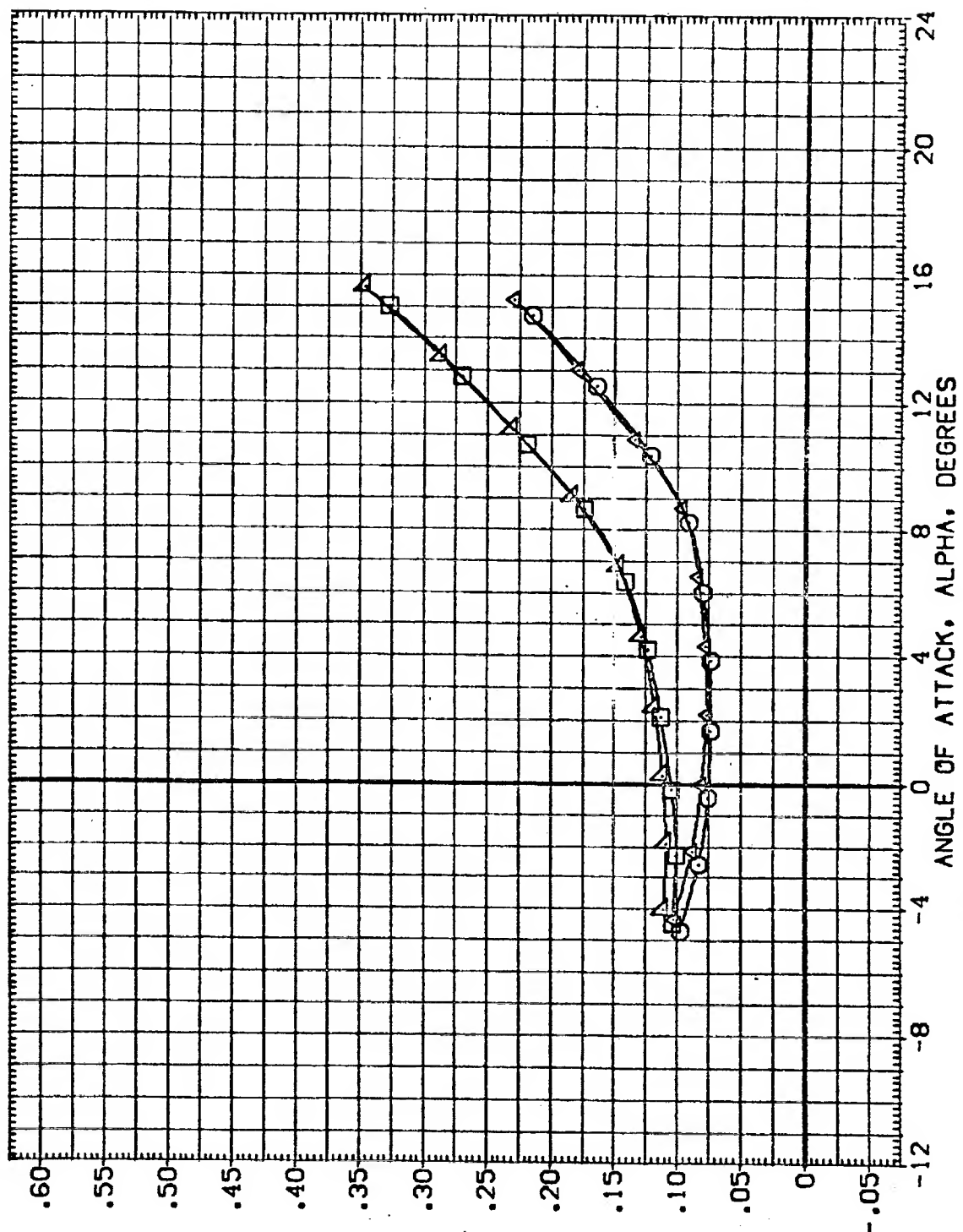


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 Q111A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 Q111A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

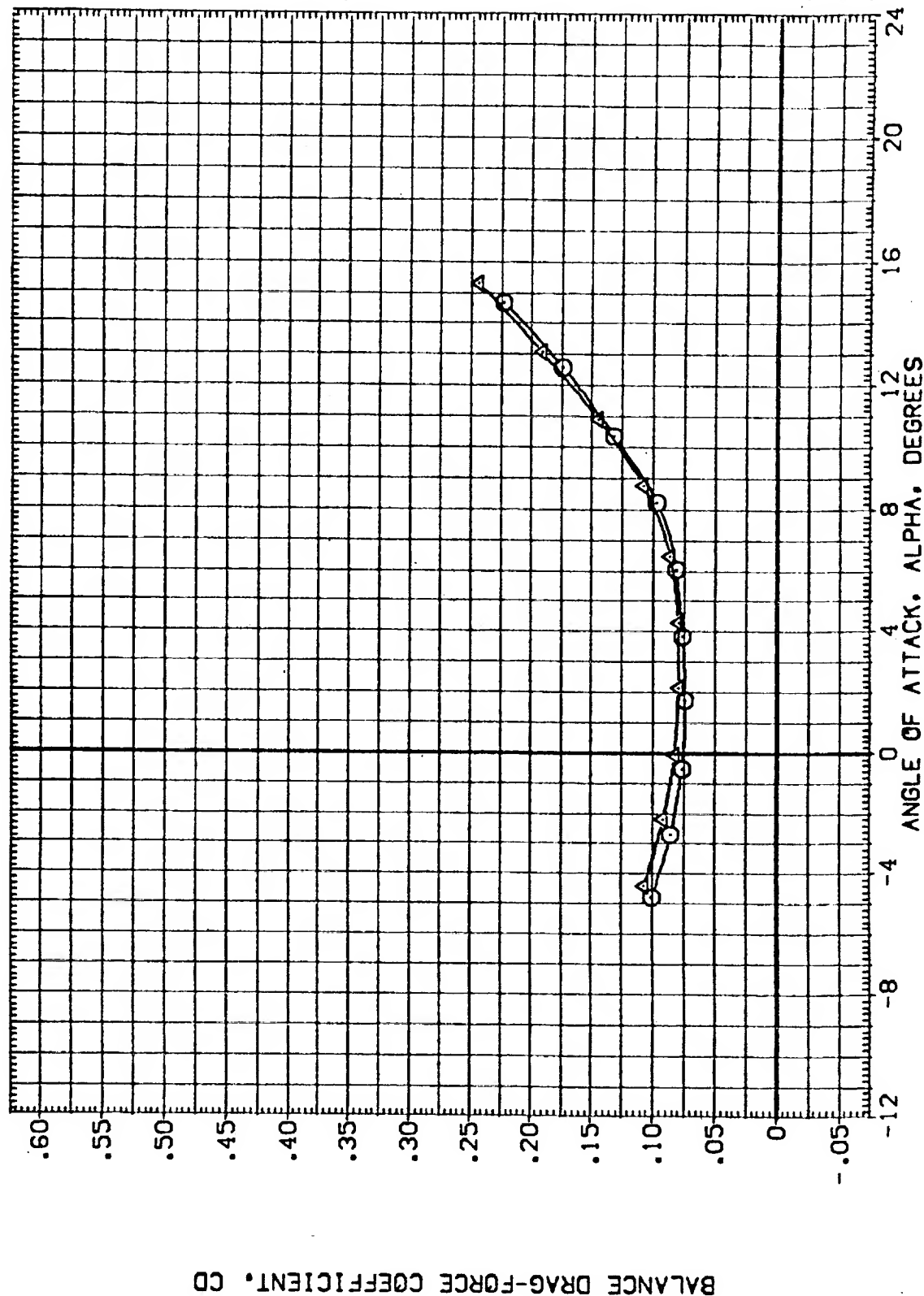


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 SQ.FT.
{CER003}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF 5935 FT.
{CER009}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

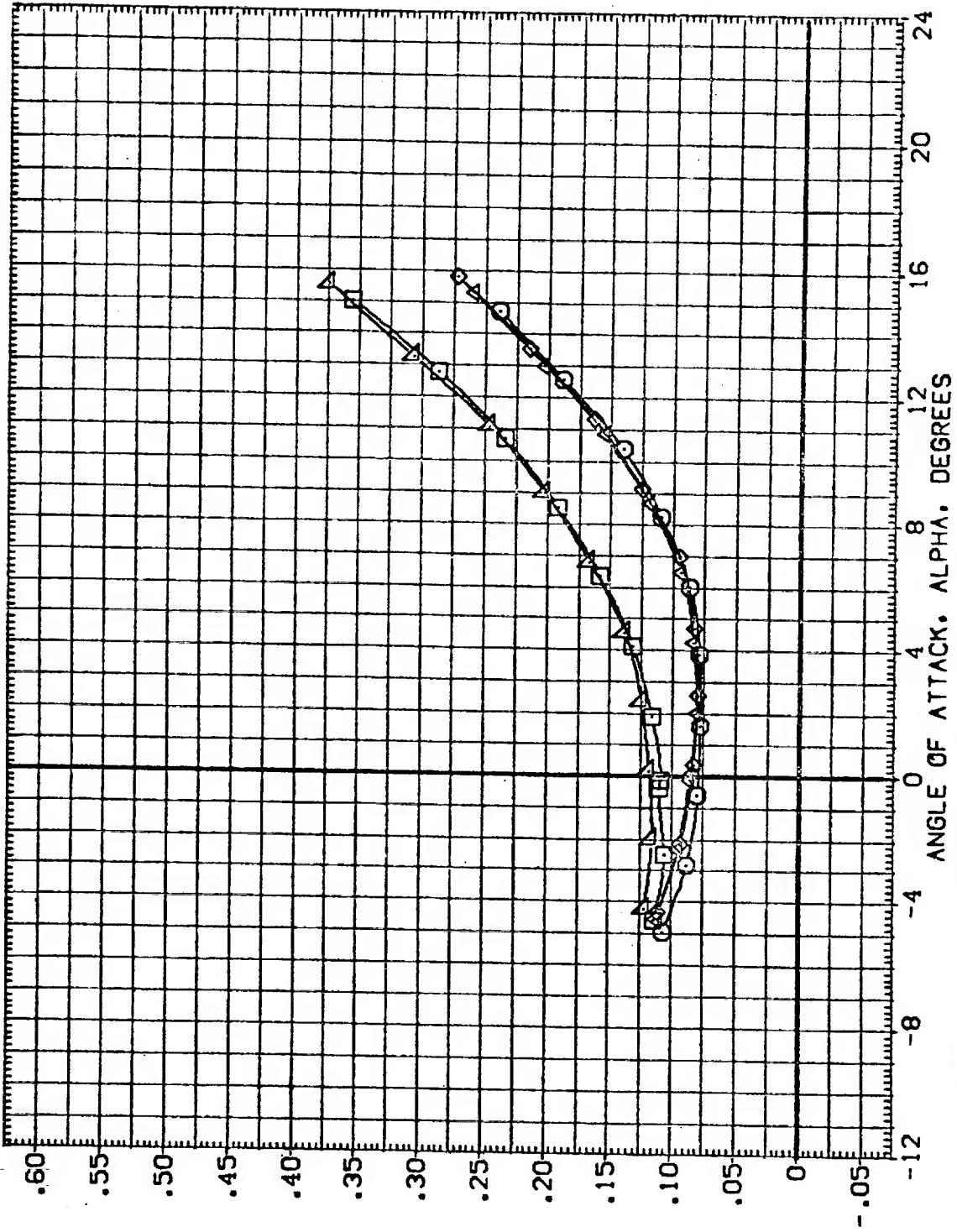


FIG. 4 - ELEVON EFFECTS DURING TARE PITCH RUNS

CD/MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ROFLAP	REFERENCE INFORMATION
{CER001}	ARC 65-709 0A59 0A11A-(N21 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{CER003}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{CER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
{CER012}	ARC 65-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

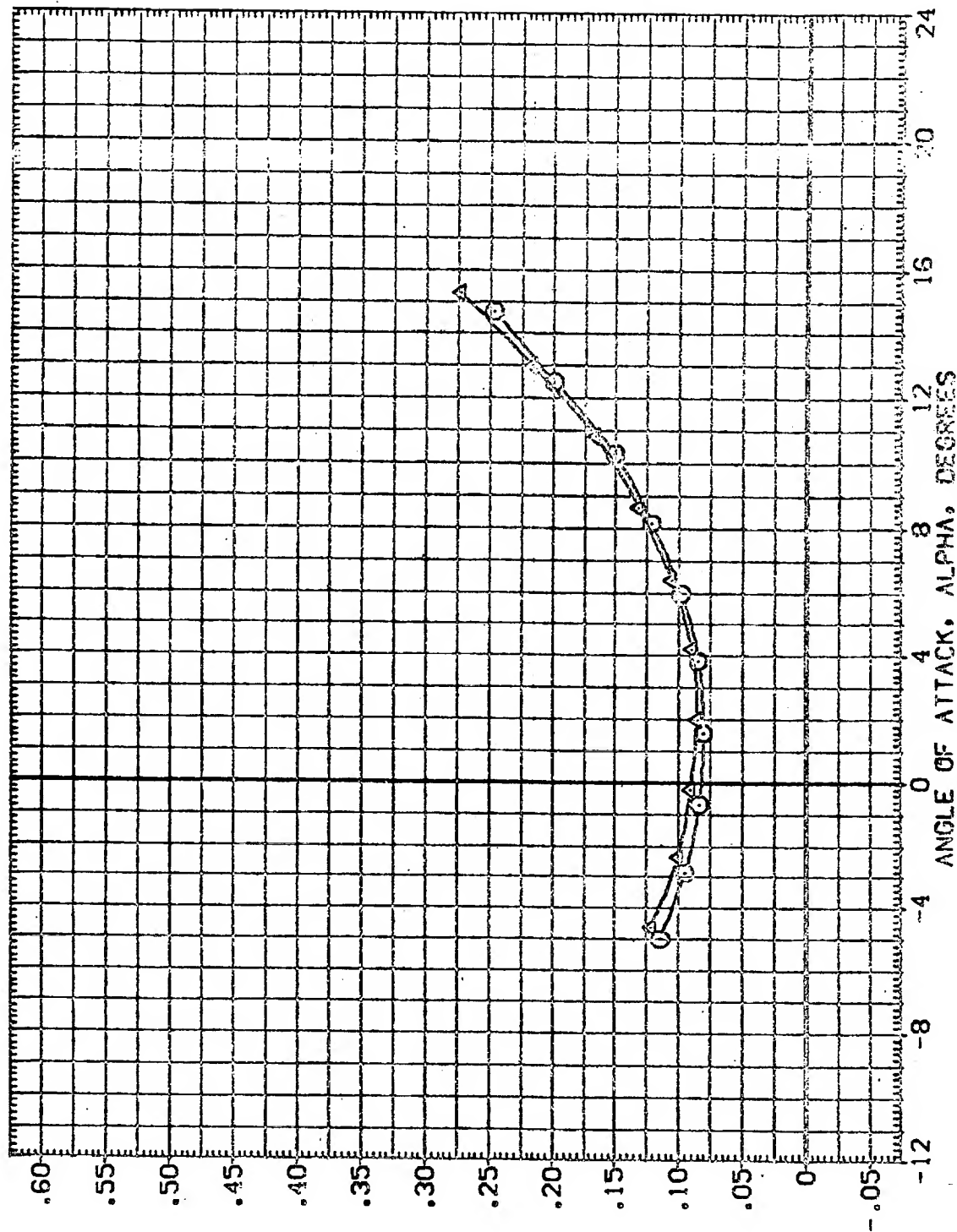


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DJM STNG

(CER003) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DJM STNG

(CER009) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT

(CER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

(CER013) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON COF LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

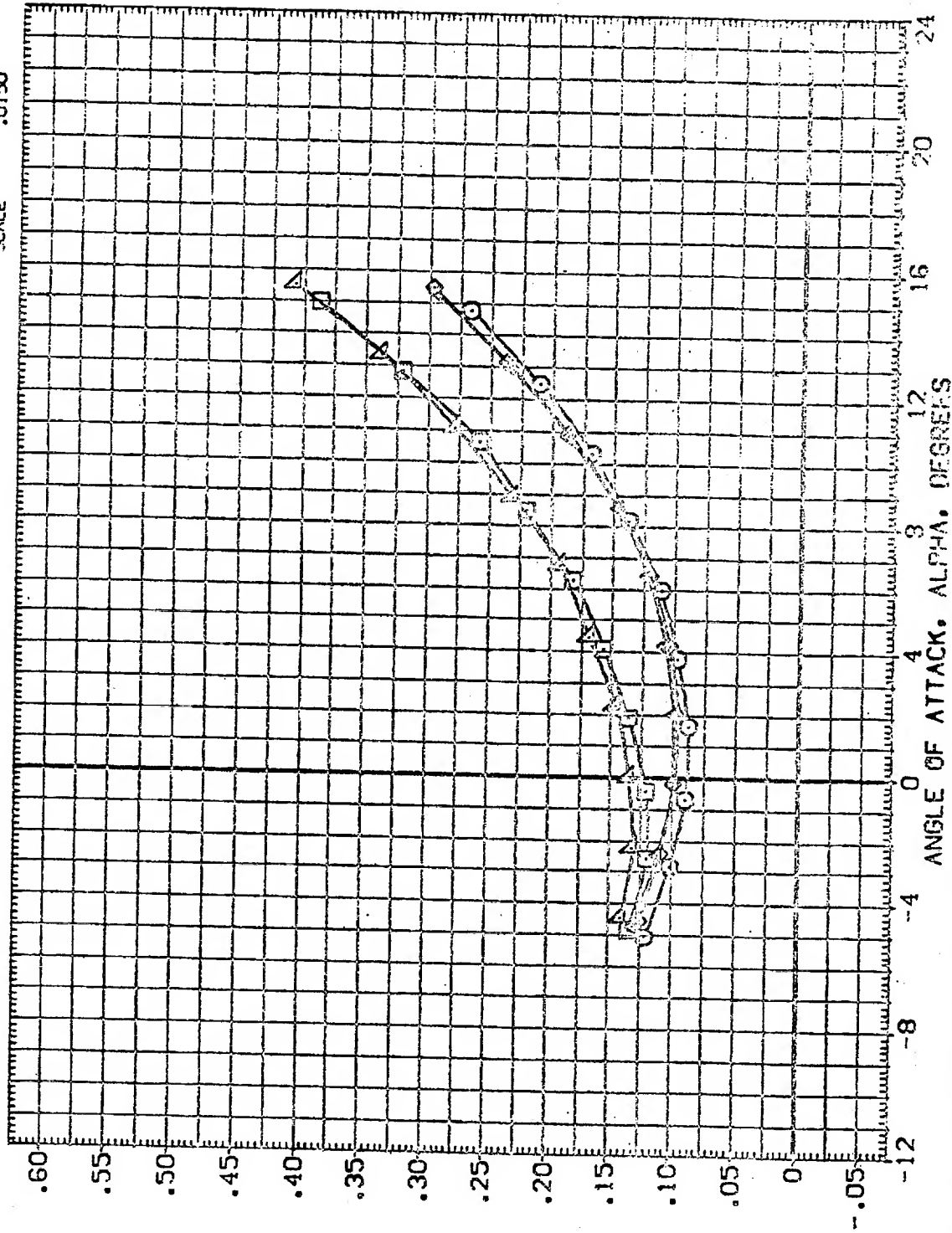


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{CER001} ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT+DUM SING

{CER003} DATA NOT AVAILABLE

{CER009} DATA NOT AVAILABLE

{CER012} ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT

{CER013} DATA NOT AVAILABLE

BETA ELEVON SDFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF 8053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6235 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

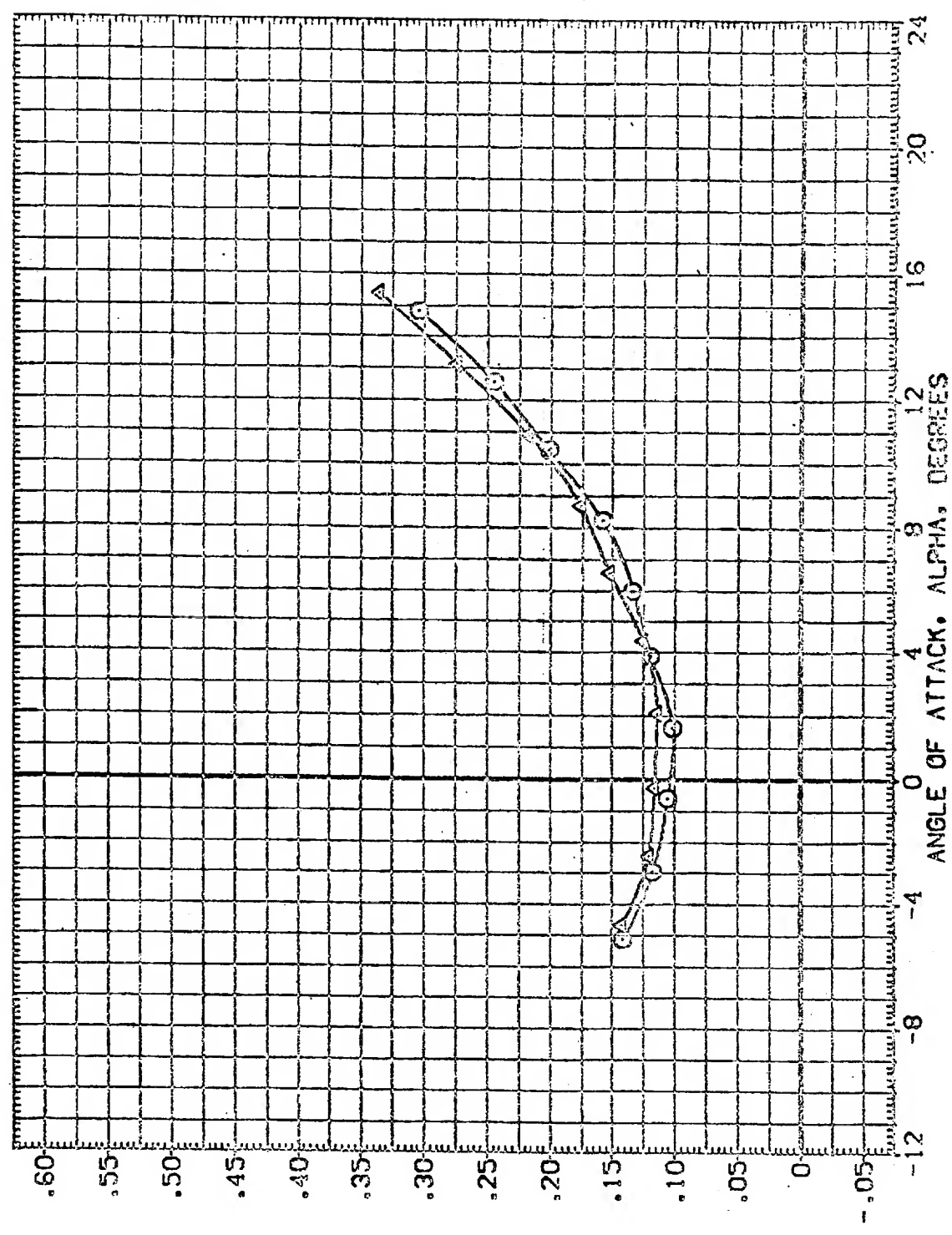


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	COFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .0053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5335 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	ØREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.5255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

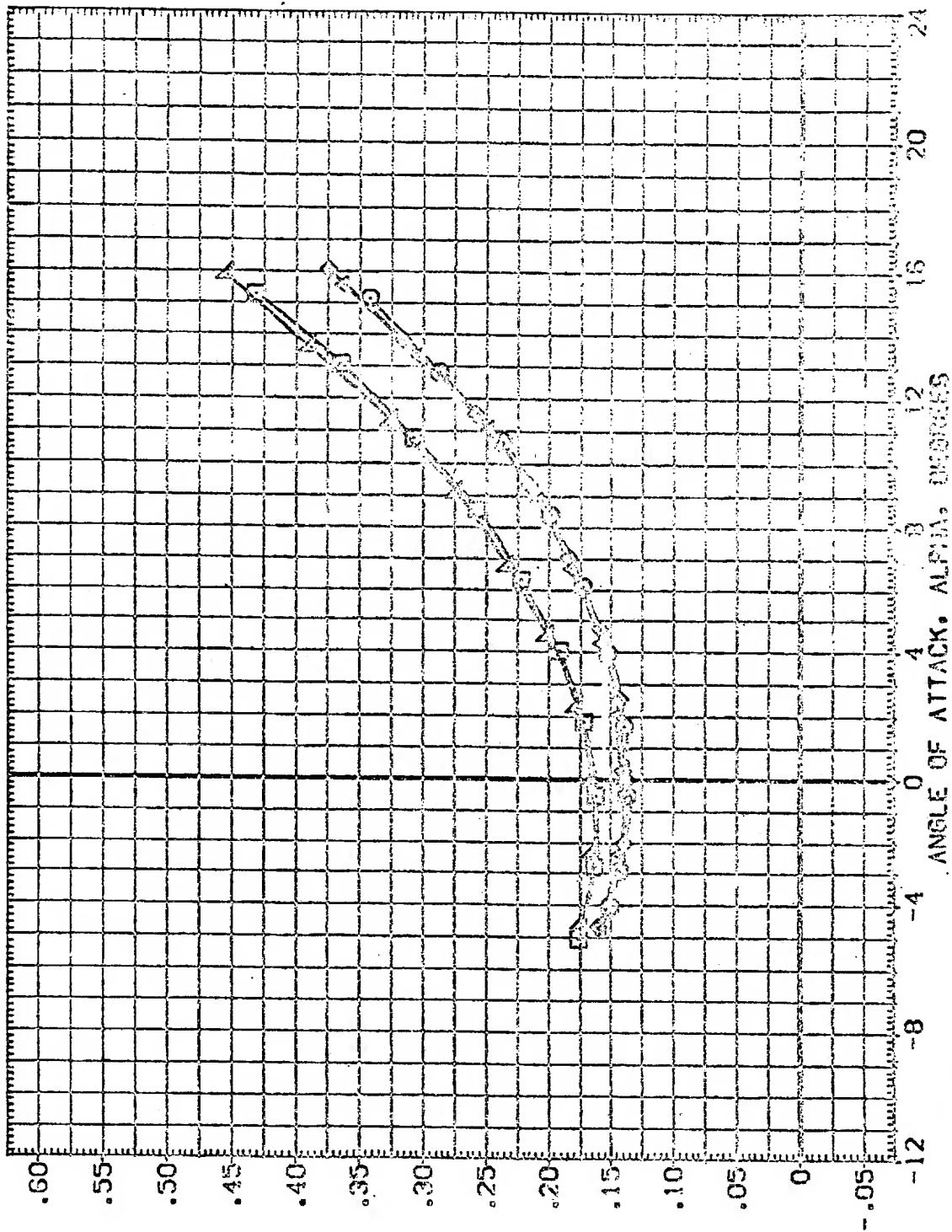


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CHMACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DATA	ELEVON	OSLAP
(CER001)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER002)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER003)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER004)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER005)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER006)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER007)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER008)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER009)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER010)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER011)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER012)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700
(CER013)	ARC 65-703 OAS3 DALLA-IN24 RS V31+STRUT+DUM STN3	.000	.000	-11.700

REFERENCE INFORMATION

REFERENCE INFORMATION	VALUE	UNIT
SREF	80.53	FT.
LREF	59.35	FT.
SREF	1.1710	IN.
XREF	12.6255	IN.
YREF	0.0000	IN.
ZREF	-37.50	IN.
SCALE	.0150	

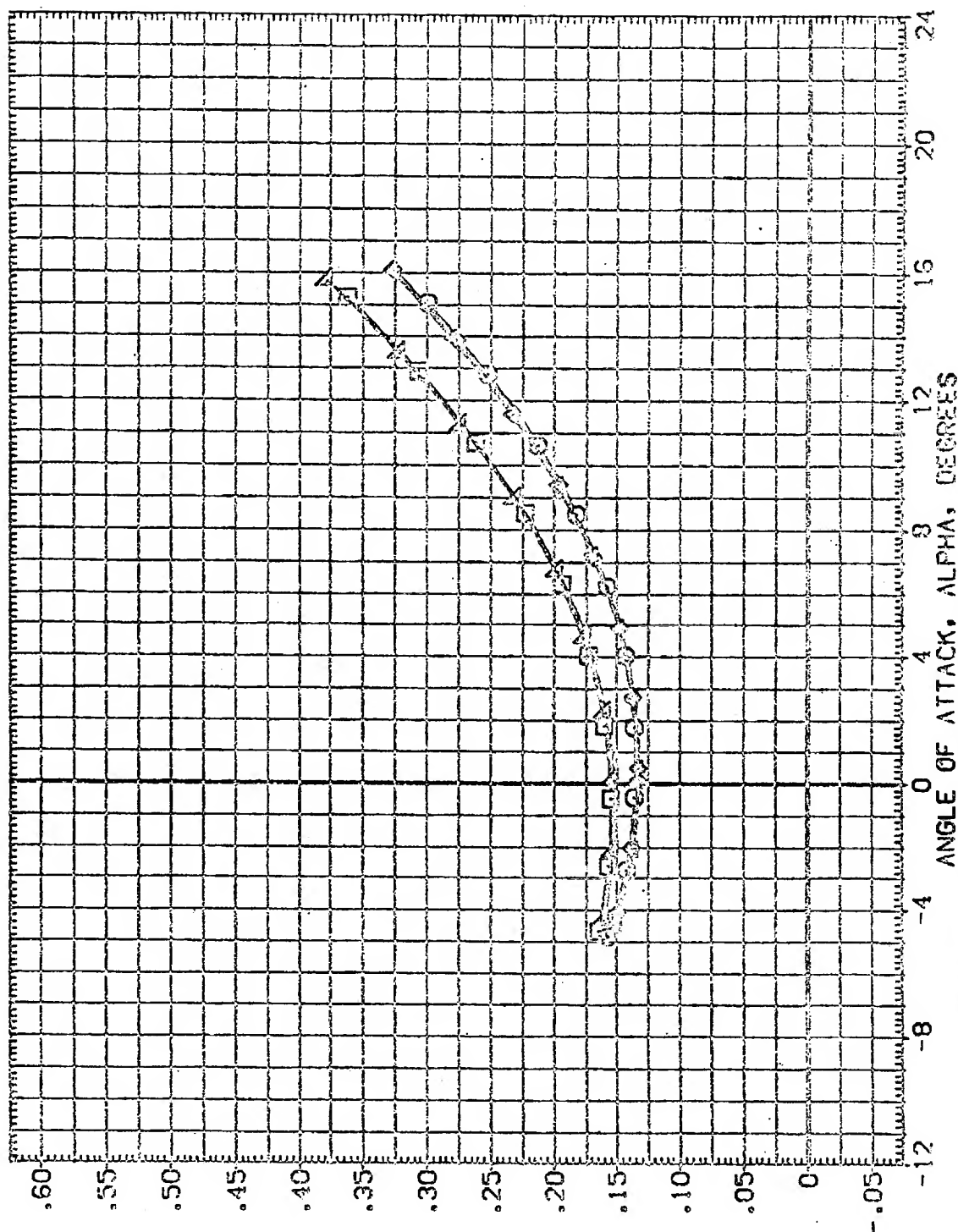


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CLIMACH = 1.50

REFERENCE INFORMATION
 SREF .6053 59. FT.
 LREF .5075 FT.
 SREF 1.1710 FT.
 XREF 12.6255 IN.
 YREF .0000 IN.
 ZREF -.3750 IN.
 SCALE .0150

BETA ELEVON 30FLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT+0C1 STNG
 ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT+0C1 STNG
 ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT
 ARC 66-709 0A59 0A11A-(R5 V8)*STRUT
 ARC 66-709 0A59 0A11A-(R5 V8)*STRUT

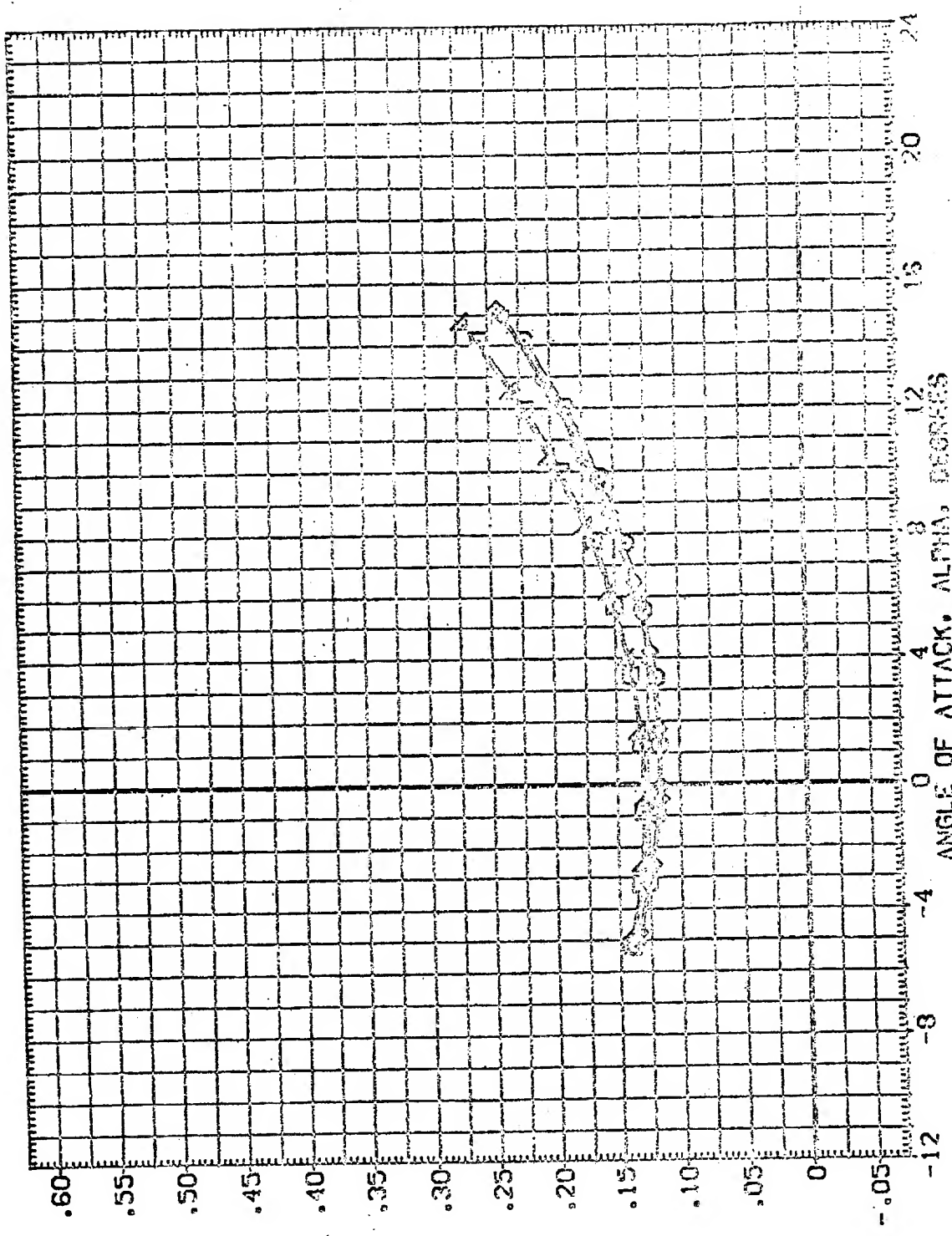


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL COMBINATION DESCRIPTION BETA ELEVON %SLAP REFERENCE INFORMATION

DATA SET SYMBOL	COMBINATION DESCRIPTION	BETA	ELEVON	%SLAP	REFERENCE INFORMATION
[CER001]	ARC 55-703 0A59 DAI1A-(N24 RS V3)+STRUT+CUM STNG	.000	.000	-11.700	SREF .5053 50. FT.
[CER003]	ARC 55-703 0A59 DAI1A-(N24 RS V3)+STRUT+CUM STNG	.000	.000	-11.700	LREF .5935 FT.
[CER009]	ARC 55-703 0A59 DAI1A-(N24 RS V3)+STRUT	.000	.000	-11.700	SREF 1.1710 IN.
[CER012]	ARC 55-703 0A59 DAI1A-(RS V3)+STRUT	.000	.000	-11.700	XREF 12.6255 IN.
[CER013]	ARC 55-703 0A59 DAI1A-(RS V3)+STRUT	.000	.000	-11.700	YREF .0000 IN.
					ZREF -.3750 IN.
					SCALE .0150

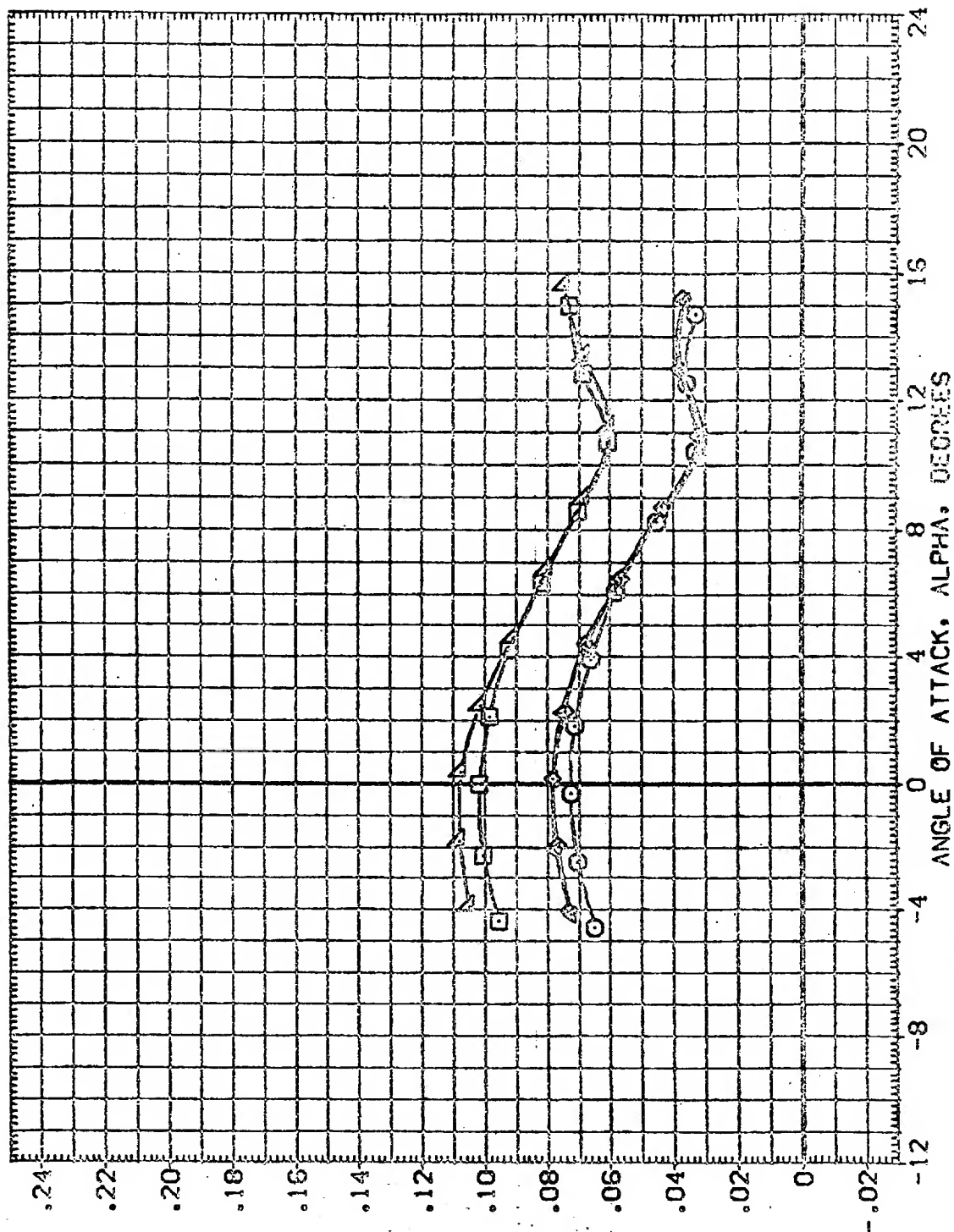


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON 60FLAP

(CER001) ARC 66-709 QAS9 CA11A-(N24 RS V3)+STRUT+QUM STNG .000 .000 -11.700

(CER003) ARC 66-709 QAS9 CA11A-(N24 RS V3)+STRUT+QUM STNG .000 .000 -11.700

(CER009) DATA NOT AVAILABLE .000 .000 -11.700

(CER012) ARC 66-709 QAS9 CA11A-(RS V3)+STRUT .000 .000 -11.700

(CER013) ARC 66-709 QAS9 CA11A-(RS V8)+STRUT .000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 59. FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

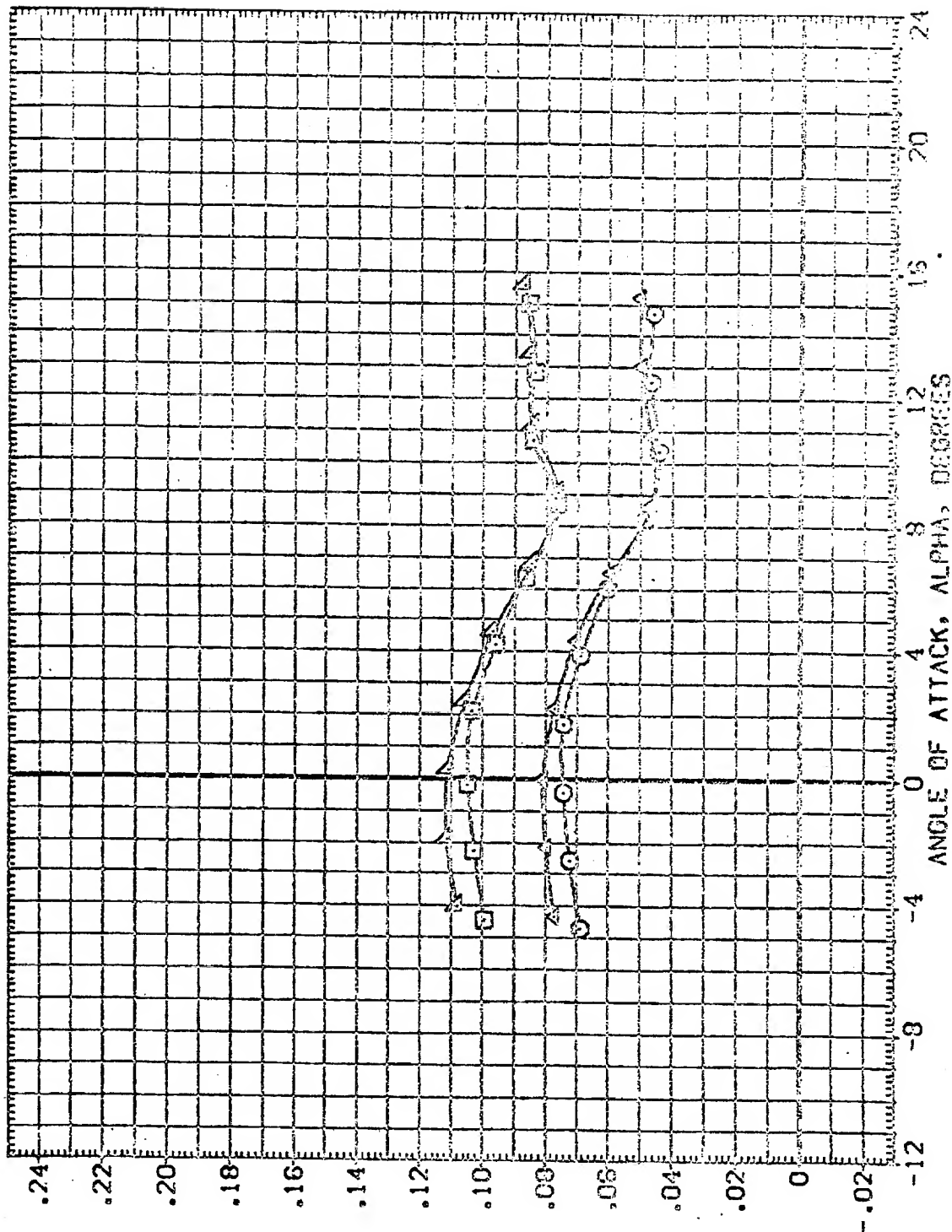


FIG. 4 ELEVON EFFECTS DURING TAKE PITCH RUNS

(B)MACH = .70

REFERENCE INFORMATION

SREF	6053	50. FT.
LNREF	5935	FT.
SRREF	1.1710	IN.
XRREF	12.6255	IN.
YRREF	1.0000	IN.
ZRREF	-3750	IN.
SCALE	.0150	

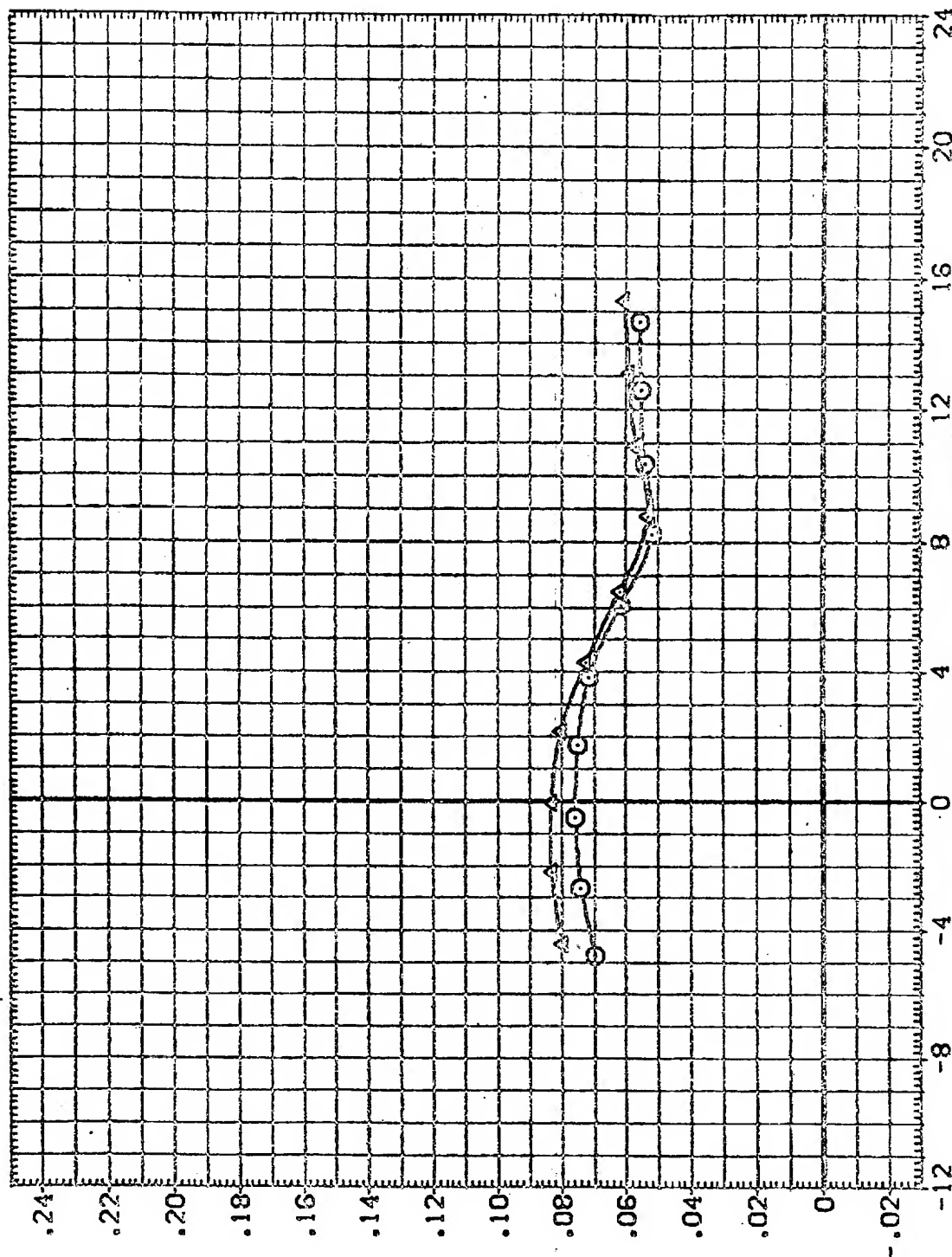
ELEVON

ELEVON	REFLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

DATA SET SYMBOL

(CER001)	ARC 55-703 CASE DALLA-(N24 R5 V01)+STRUT+DUM STNG
(CER003)	DATA NOT AVAILABLE
(CER005)	DATA NOT AVAILABLE
(CER012)	ARC 55-703 CASE DALLA-(R5 V01)+STRUT
(CER013)	DATA NOT AVAILABLE

CONFIGURATION IDENTIFICATION



BALANCE AXIAL-FORCE COEFFICIENT, CA

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON 93CLAP

[CER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+0M STNG .000 .000 -11.700
 [CER003] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+0M STNG .000 .000 -11.700
 [CER008] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT .000 .000 -11.700
 [CER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 .000 -11.700
 [CER013] ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 .000 -11.700

REFERENCE INFORMATION
 SREF 6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.5255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

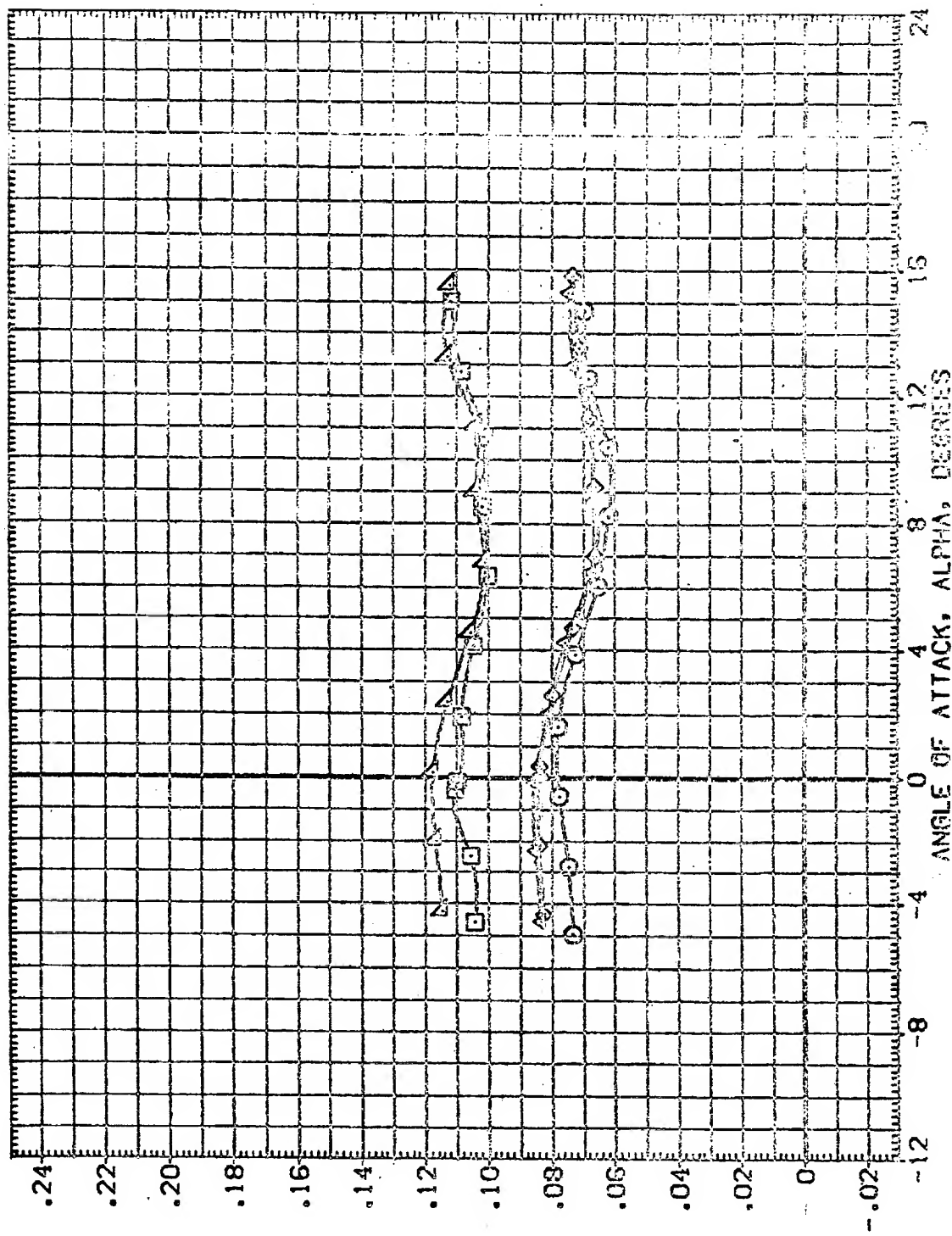


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

REFERENCE INFORMATION

SREF	.0053	50. FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON 92 LAP

ETA	.000	-11.700
ELEVON	.000	-11.700
ELEVON	.000	-11.700
ELEVON	.000	-11.700
ELEVON	.000	-11.700

DATA SET OVERL

CONFIGURATION DESCRIPTION	ARC 52-703 G150 G111A-(R24 R5 V0)+STRUT+DUM STING
DATA NOT AVAILABLE	
DATA NOT AVAILABLE	
DATA NOT AVAILABLE	
DATA NOT AVAILABLE	

DATA SET OVERL

CONFIGURATION DESCRIPTION	ARC 52-703 G150 G111A-(R3 V0)+STRUT
DATA NOT AVAILABLE	
DATA NOT AVAILABLE	
DATA NOT AVAILABLE	
DATA NOT AVAILABLE	

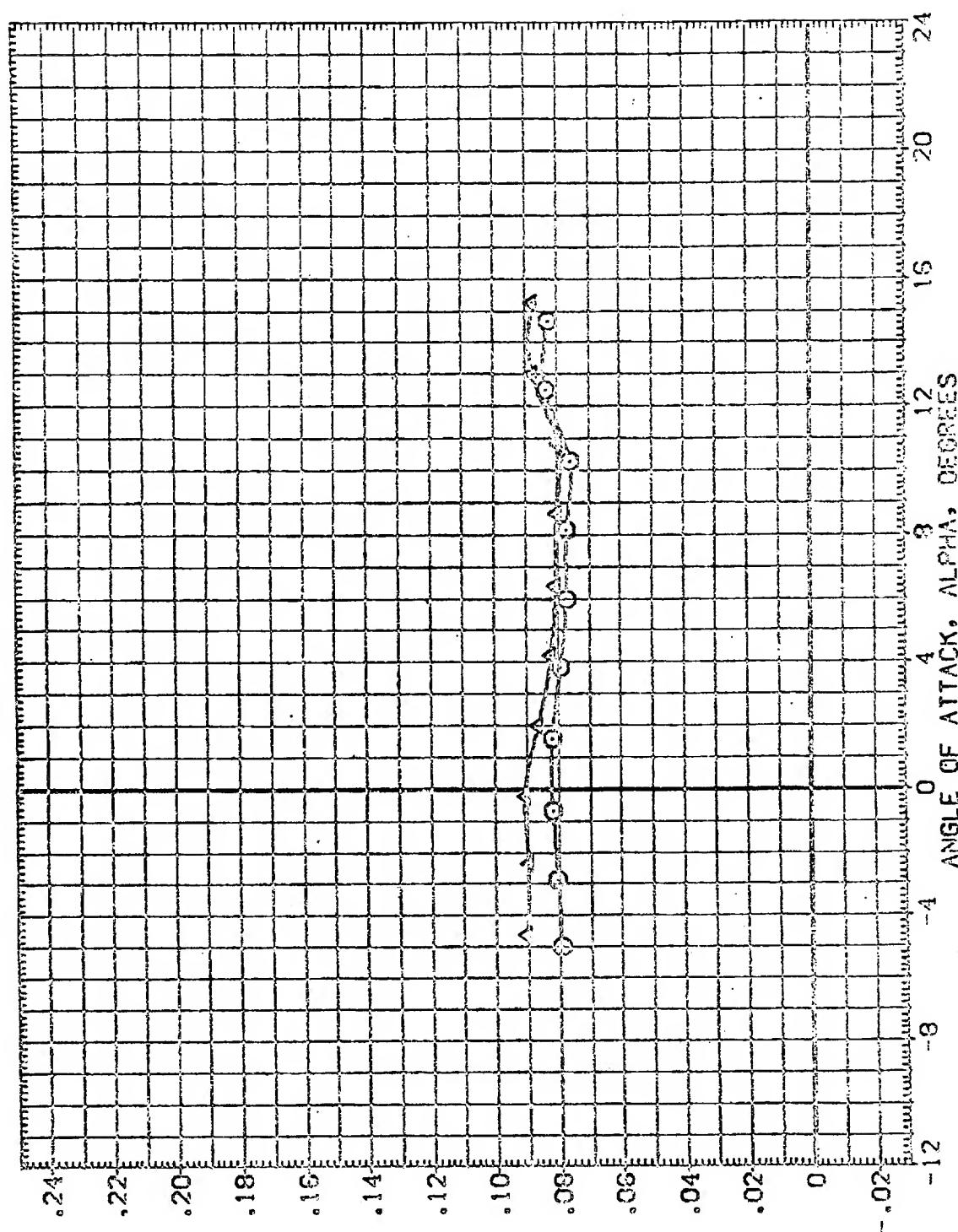


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .95

REFERENCE INFORMATION

REF	8053	50 FT.
LREF	5935	FT.
REF	11710	IN.
XMRP	12.8255	IN.
YMRP	10000	IN.
ZMRP	-3750	IN.
SCALE	.0150	

BETA

ELEVON	8074P
	.000
	13.000
	.000
	13.000
	.000
	13.000

CONFIGURATION DESCRIPTION

ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STING
ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT	
ARC 66-709	DA59	DA11A-(RS	V81+STRUT		

DATA SET SYMBOL

{ CER001 }	
{ CER003 }	
{ CER009 }	
{ CER012 }	
{ CER013 }	

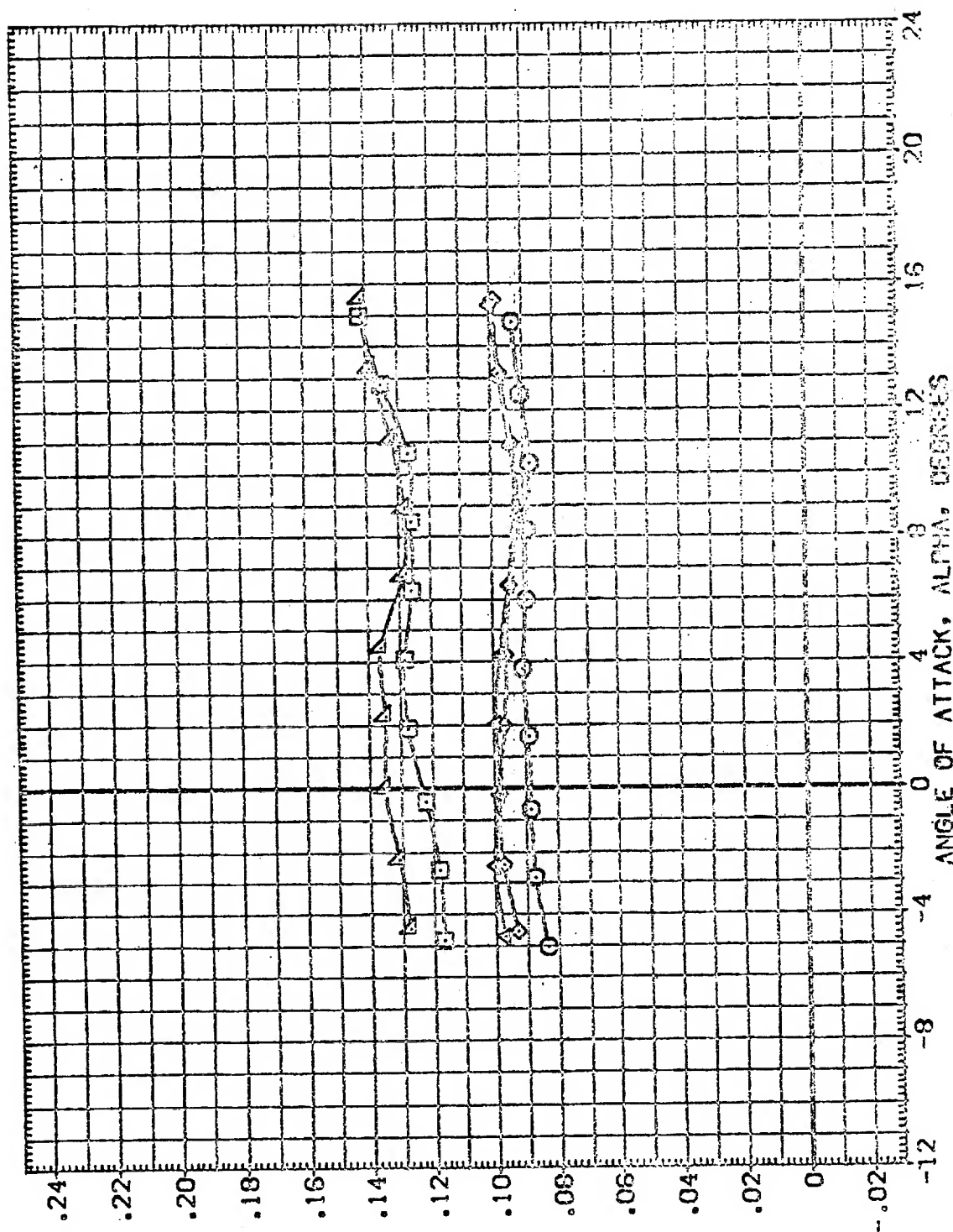


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 65-703 OAS9 DATA-(N24 RS V9)+STRUT+EM STING
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) ARC 65-709 OAS9 DATA-(RS V9)+STRUT
 (CER013) DATA NOT AVAILABLE

BETA ELEVON ROTLAP

.000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 50 FT.
 UREF 5935 FT.
 BREF 1.1710 IN.
 XMRP 12.5255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

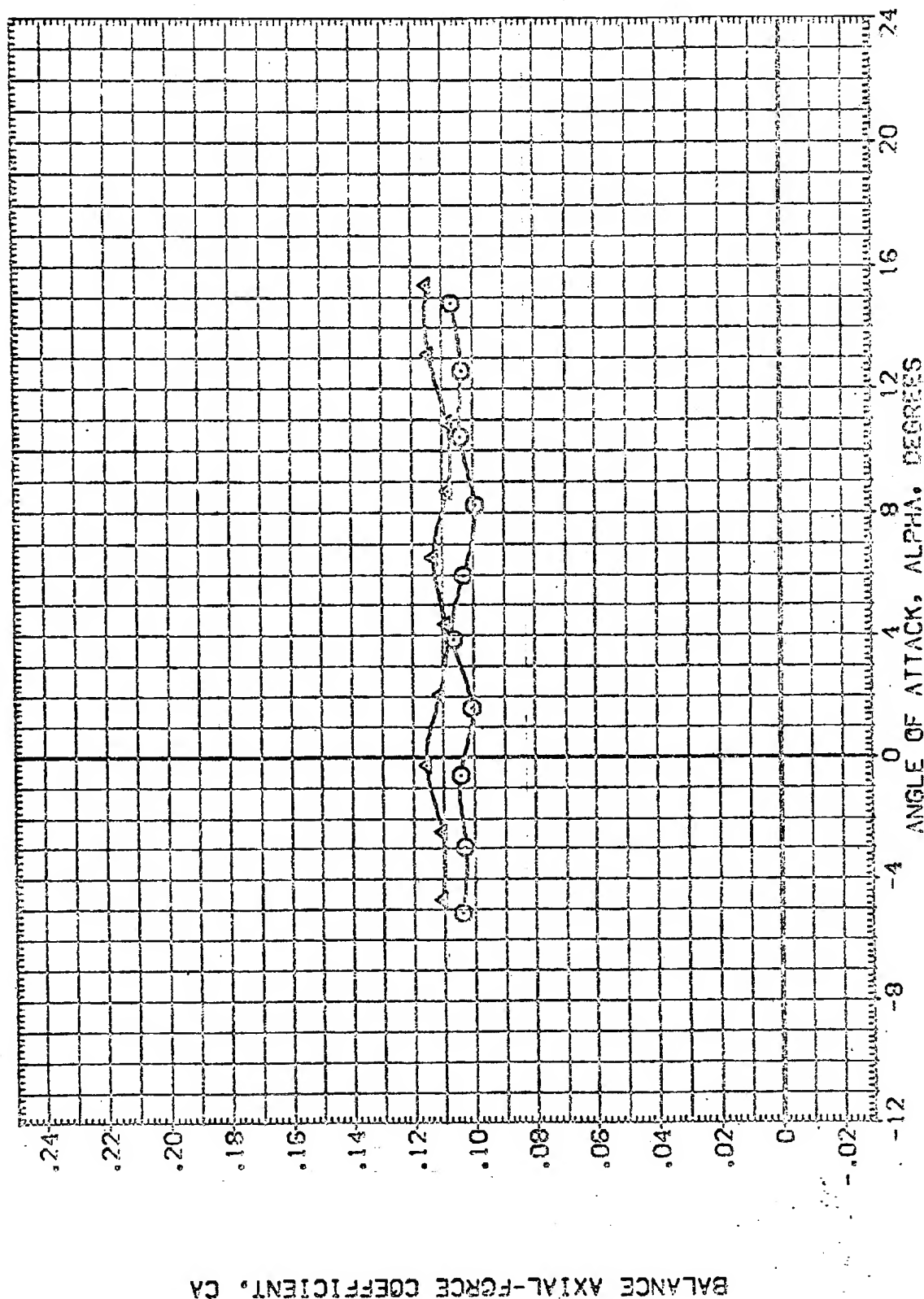


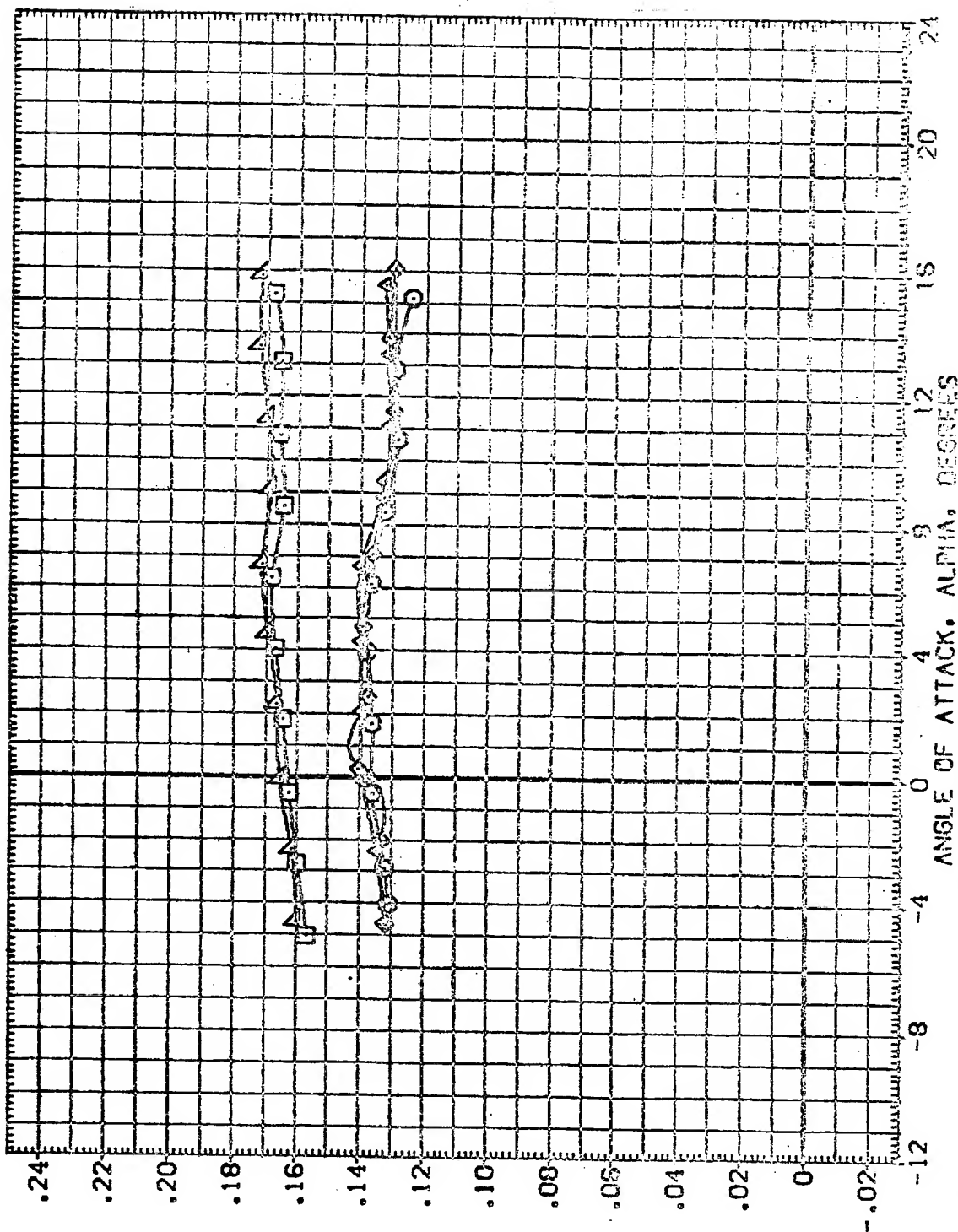
FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON SDFLAP

REF. INFORMATION

{ CER001 } ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+OJM STING .000 .000 -11.700
 { CER003 } ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+OJM STING .000 .000 -11.700
 { CER009 } ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT .000 .000 -11.700
 { CER012 } ARC 66-709 0A59 0A11A-(RS V8)*STRUT .000 .000 -11.700
 { CER013 } ARC 66-709 0A59 0A11A-(RS V8)*STRUT .000 .000 -11.700



BALANCE AXIAL-FORCE COEFFICIENT, CA

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

REFERENCE INFORMATION

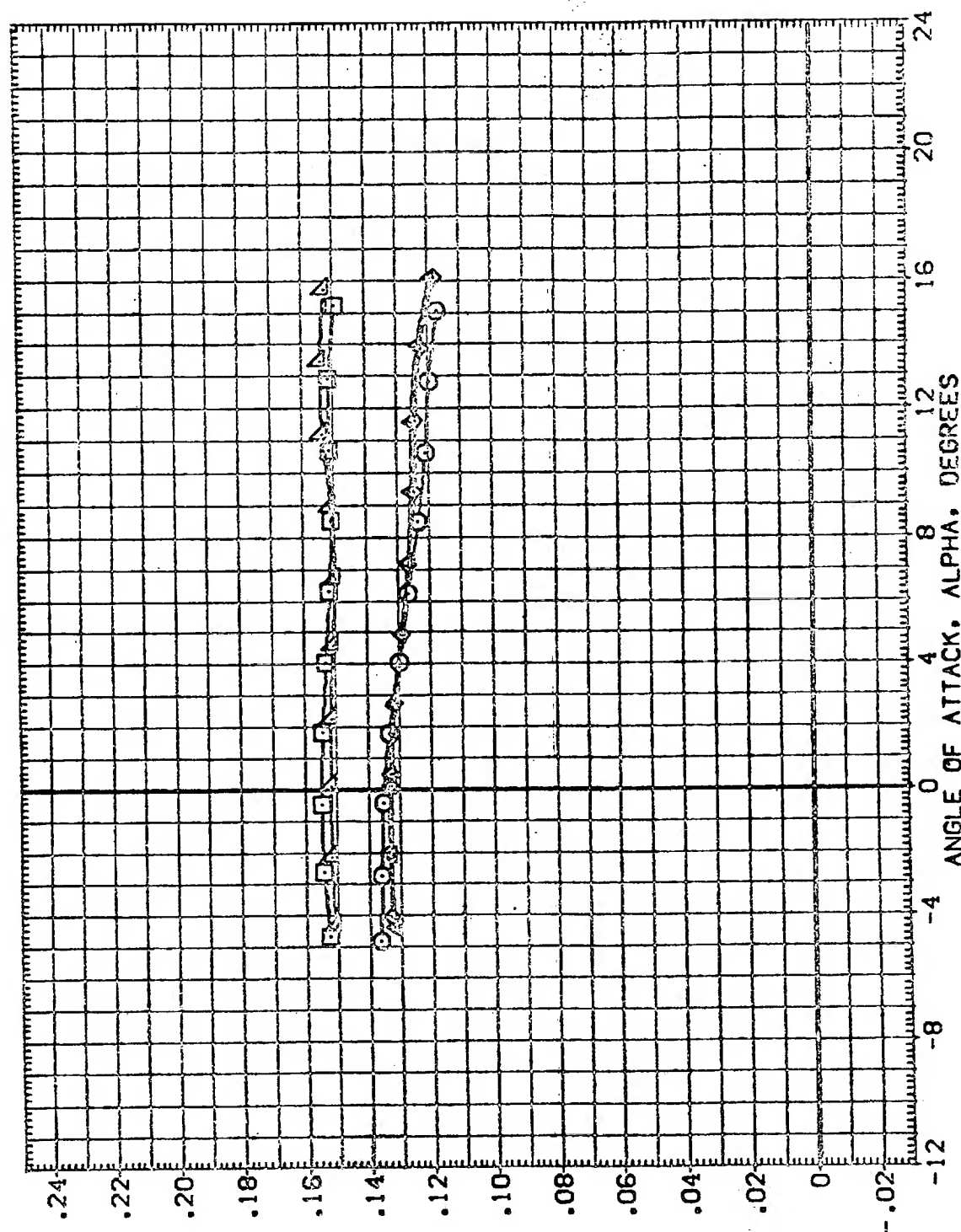
SREF	.9053	50. FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.5255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000	BOCLAP	-11.700
ELEVON	.000	BOCLAP	-11.700
ELEVON	.000	BOCLAP	-11.700
ELEVON	.000	BOCLAP	-11.700
ELEVON	.000	BOCLAP	-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 65-703	0A59	0A11A-(N21 RS V91)+STRUT+DUM STNG
ARC 65-703	0A59	0A11A-(N24 RS V81)+STRUT+DUM STNG
ARC 65-703	0A59	0A11A-(N24 RS V81)+STRUT
ARC 65-703	0A59	0A11A-(RS V91)+STRUT
ARC 65-703	0A59	0A11A-(RS V81)+STRUT



BALANCE AXIAL-FORCE COEFFICIENT, C_A

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBL. CONFIGURATION DESCRIPTION

{CER001} ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+0JM STNG

{CER002} ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+0JM STNG

{CER003} ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT

{CER009} ARC 66-709 0A59 0A11A-(RS V81)*STRUT

{CER012} ARC 66-709 0A59 0A11A-(RS V81)*STRUT

{CER013} ARC 66-709 0A59 0A11A-(RS V81)*STRUT

BETA ELEVON SOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5933 FT.

BREF 1.1710 IN.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE .0150

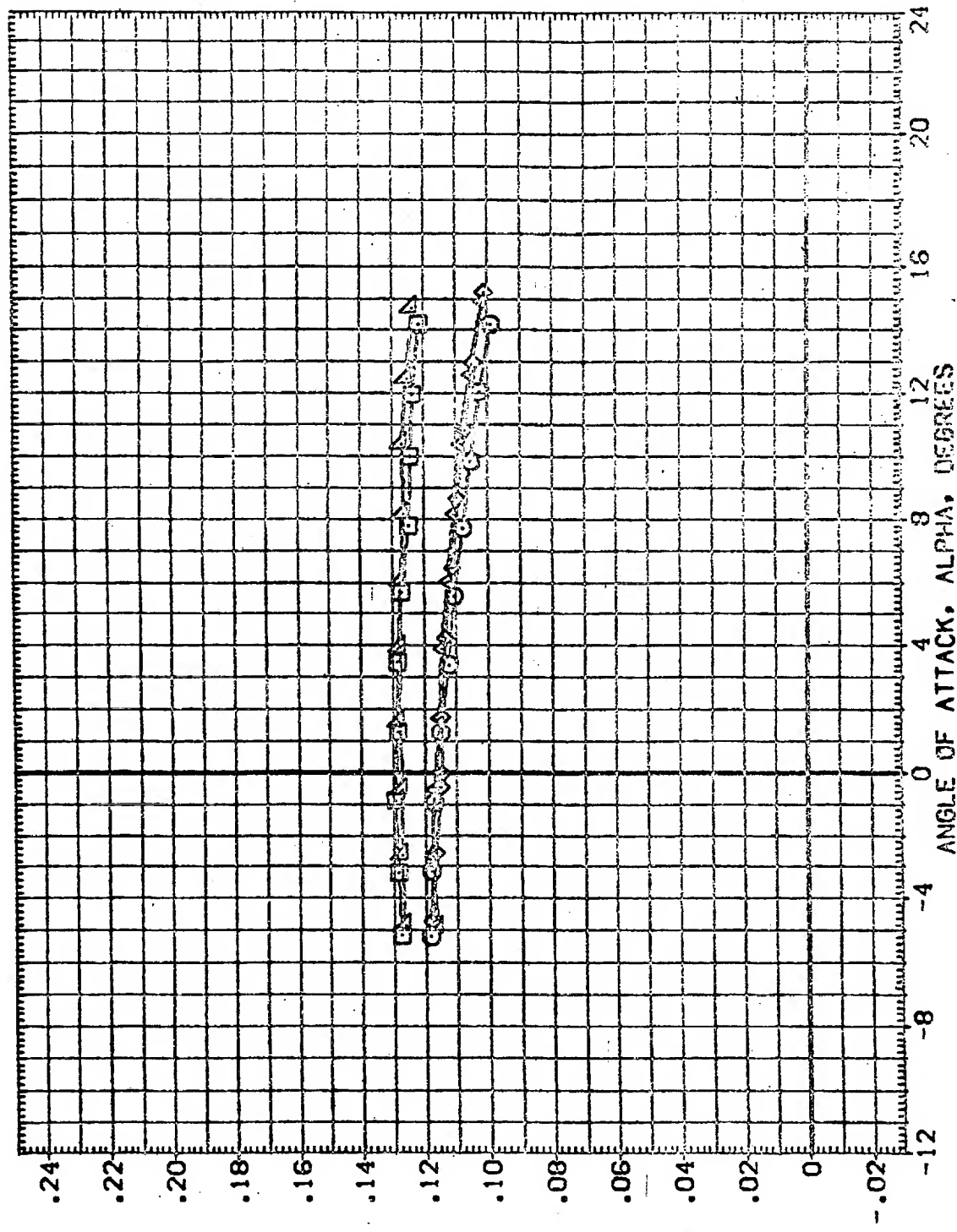


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

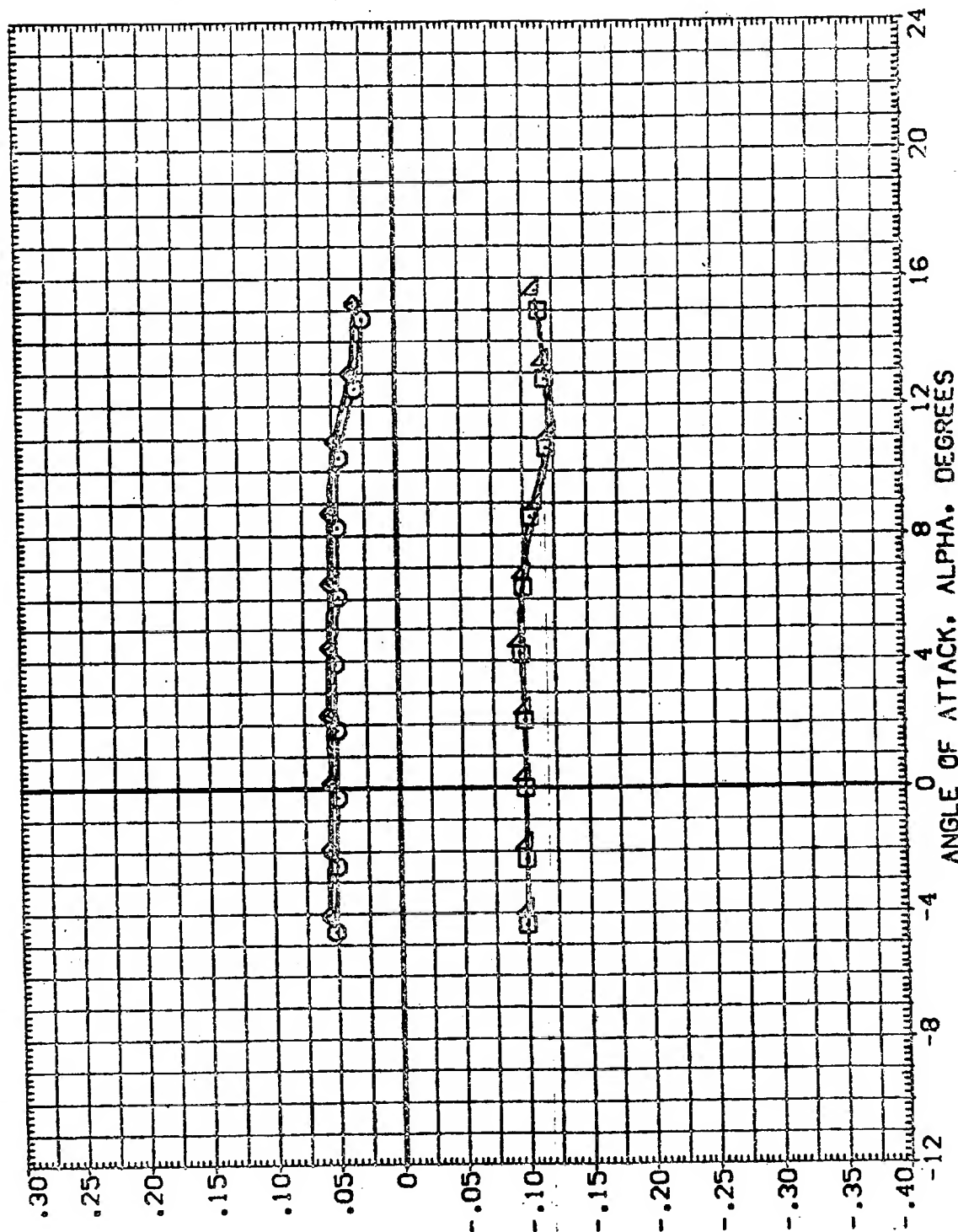
(J)MACH = 2.00

REFERENCE INFORMATION

SREF	.6053	59. FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.5255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA	ELEVON	SOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
ARC 66-709 0A59	0A11A-(N24 RS V81)*STRUT+DUM STNG
ARC 66-709 0A59	0A11A-(N24 RS V81)*STRUT+DUM STNG
ARC 66-709 0A59	0A11A-(N24 RS V81)*STRUT
ARC 66-709 0A59	0A11A-(RS V81)*STRUT
ARC 66-709 0A59	0A11A-(RS V81)*STRUT



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DISLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50 FT.
(CER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(CER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

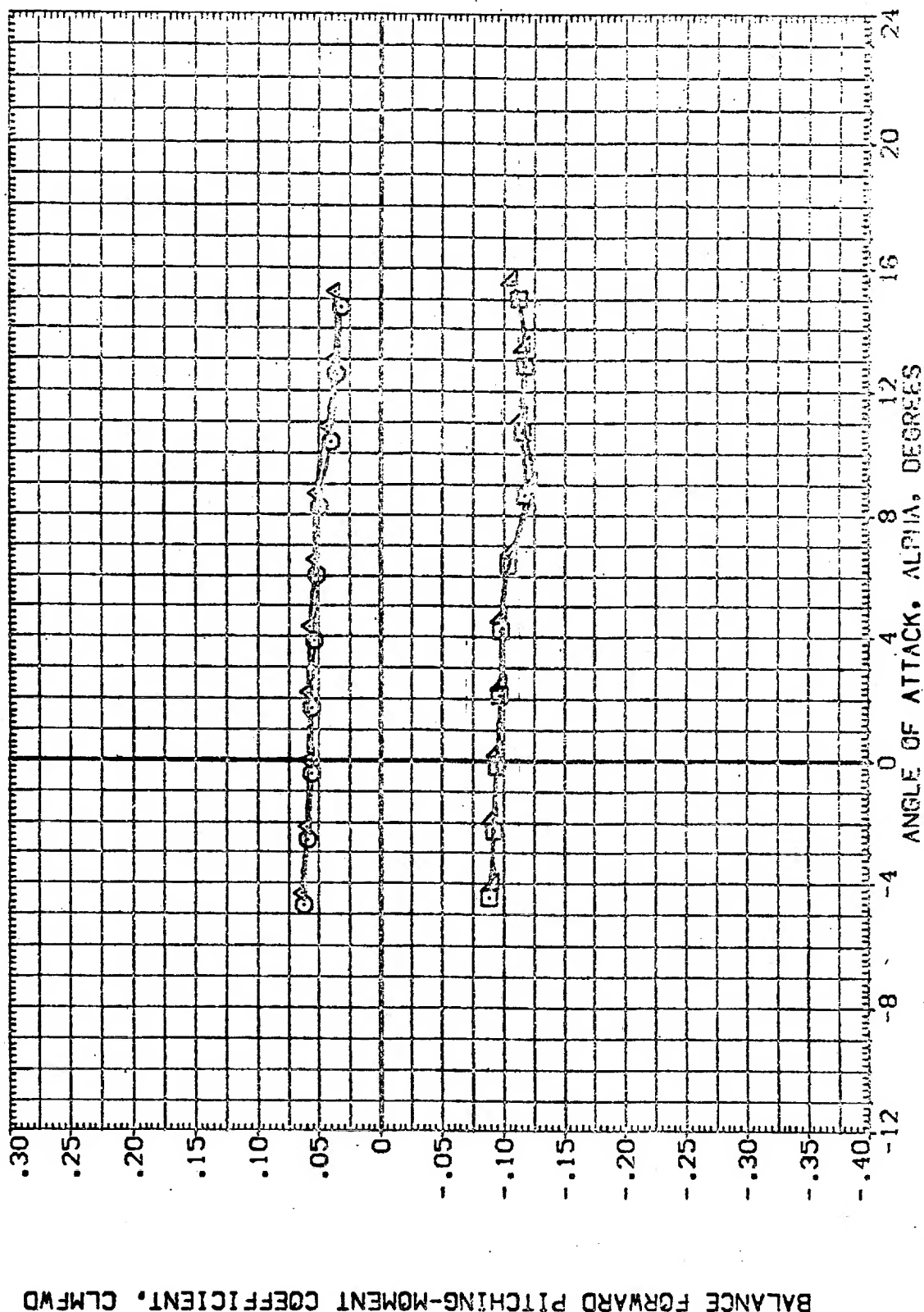


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER001) Q ARC 66-709 DAS9 0A11A-(N24 R5 V8)*STRUT+CLM STING
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) X ARC 66-709 DAS9 0A11A-(R5 V8)*STRUT
 (CER013) DATA NOT AVAILABLE

BETA ELEVON ECLAP
 .000 -11.700
 .000 15.000
 .000 -11.700
 .000 -11.700
 .000 15.000
 .000 -11.700

REFERENCE INFORMATION
 GREF .5053 50. FT.
 LRLF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.8255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

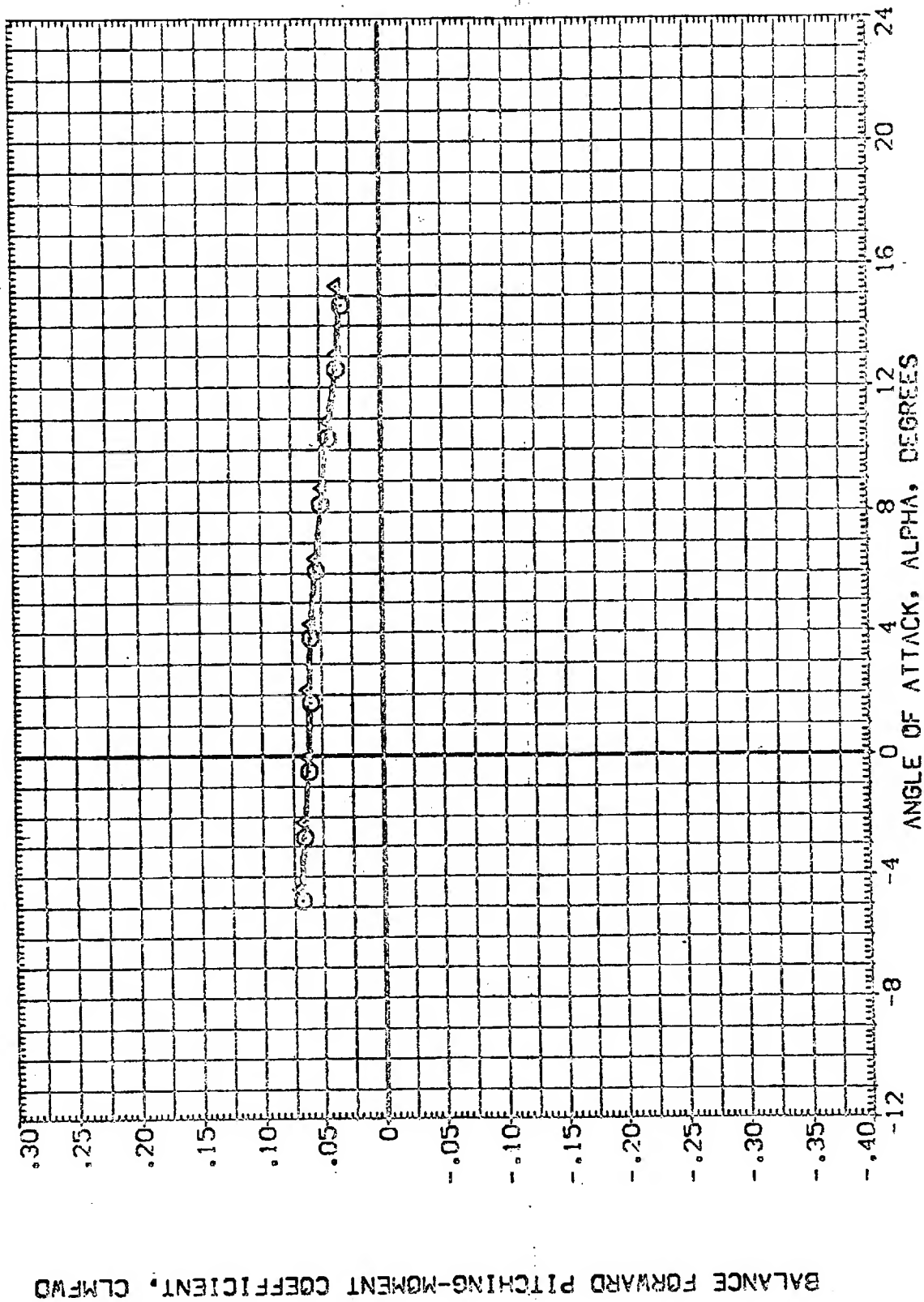


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	POSTLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N21 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 50.FT.
(CER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6235 IN.
(CER013)	ARC 66-709 QAS9 0A11A-(PS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

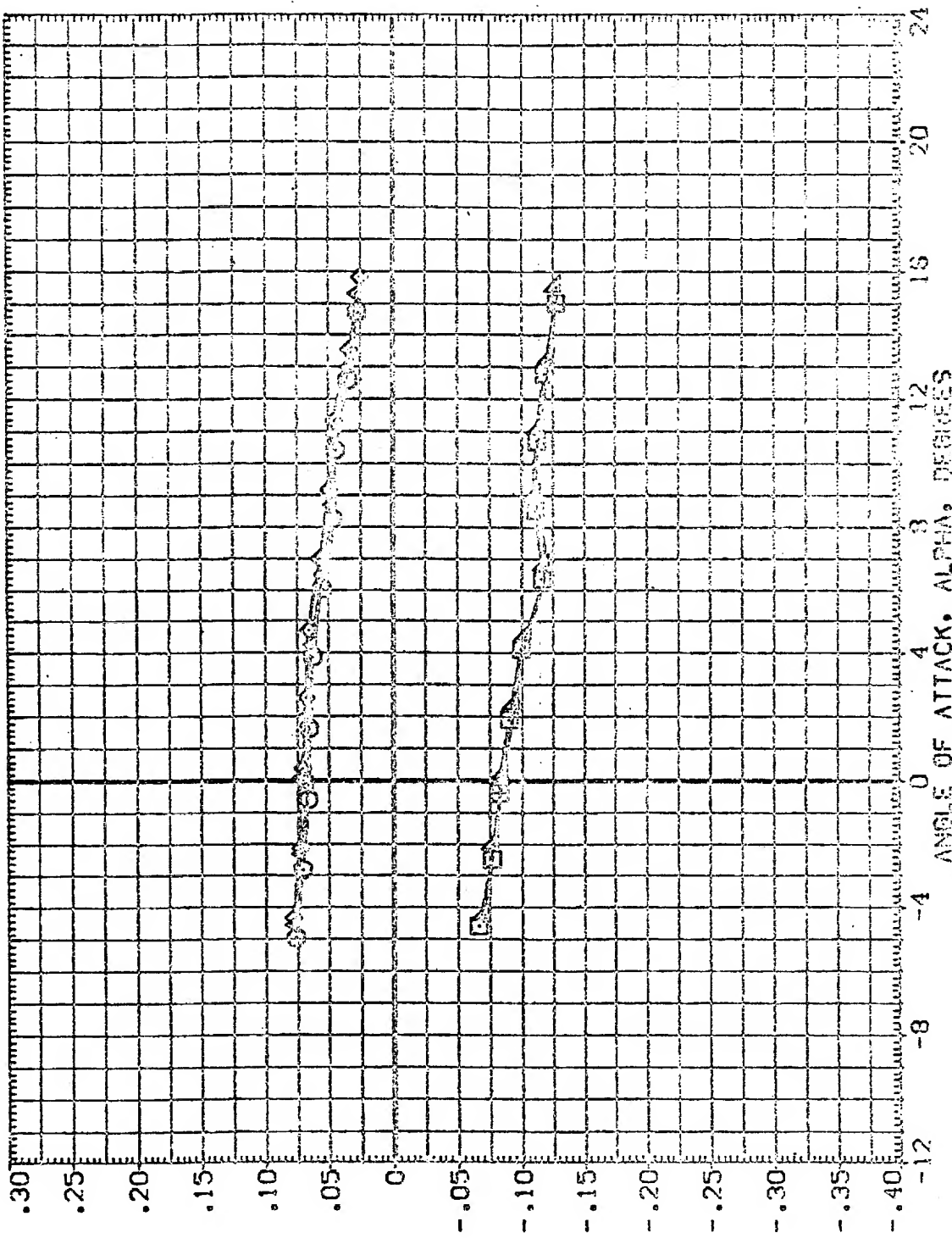


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(DJMACH = .90

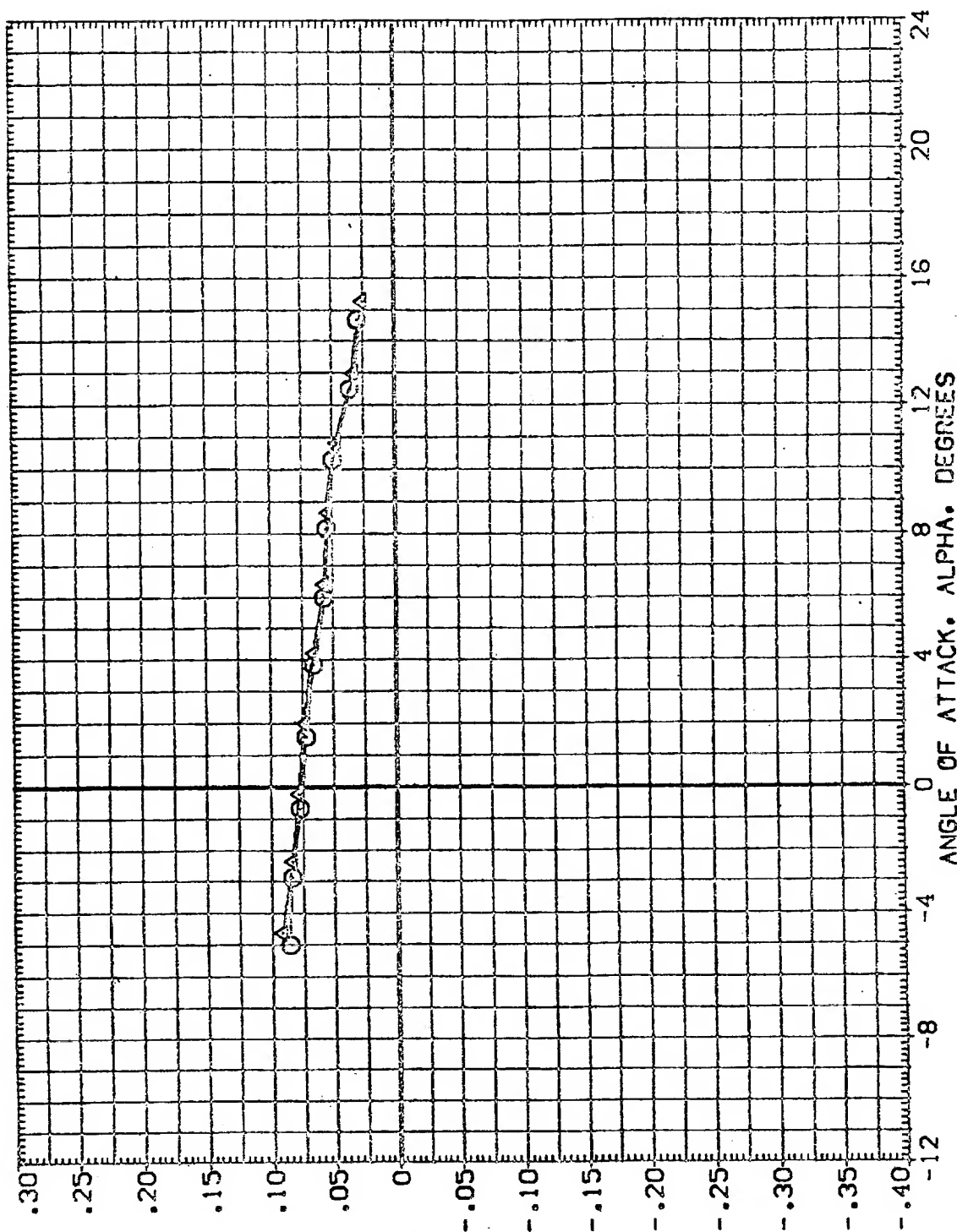
REFERENCE INFORMATION

SREF	6053	50.FT.
LREF	5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

DELTA	ELEVON	SCFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)	ARC 66-709 QASO QAT11A-(N24 RS V0)*STRUT+OLM STNG
(CER003)	DATA NOT AVAILABLE
(CER003)	DATA NOT AVAILABLE
(CER012)	ARC 66-709 QAS9 QAT11A-(RS V0)*STRUT
(CER013)	DATA NOT AVAILABLE



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 QAS9 0A11A-(N24 RS V81)*STRUT+DUM STNG

(CER003) ARC 66-709 QAS9 0A11A-(N24 RS V81)*STRUT+DUM STNG

(CER009) ARC 66-709 QAS9 0A11A-(N24 RS V81)*STRUT

(CER012) ARC 66-709 QAS9 0A11A-(RS V81)*STRUT

(CER013) ARC 66-709 QAS9 0A11A-(RS V81)*STRUT

BETA ELEVON EOF LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .0053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

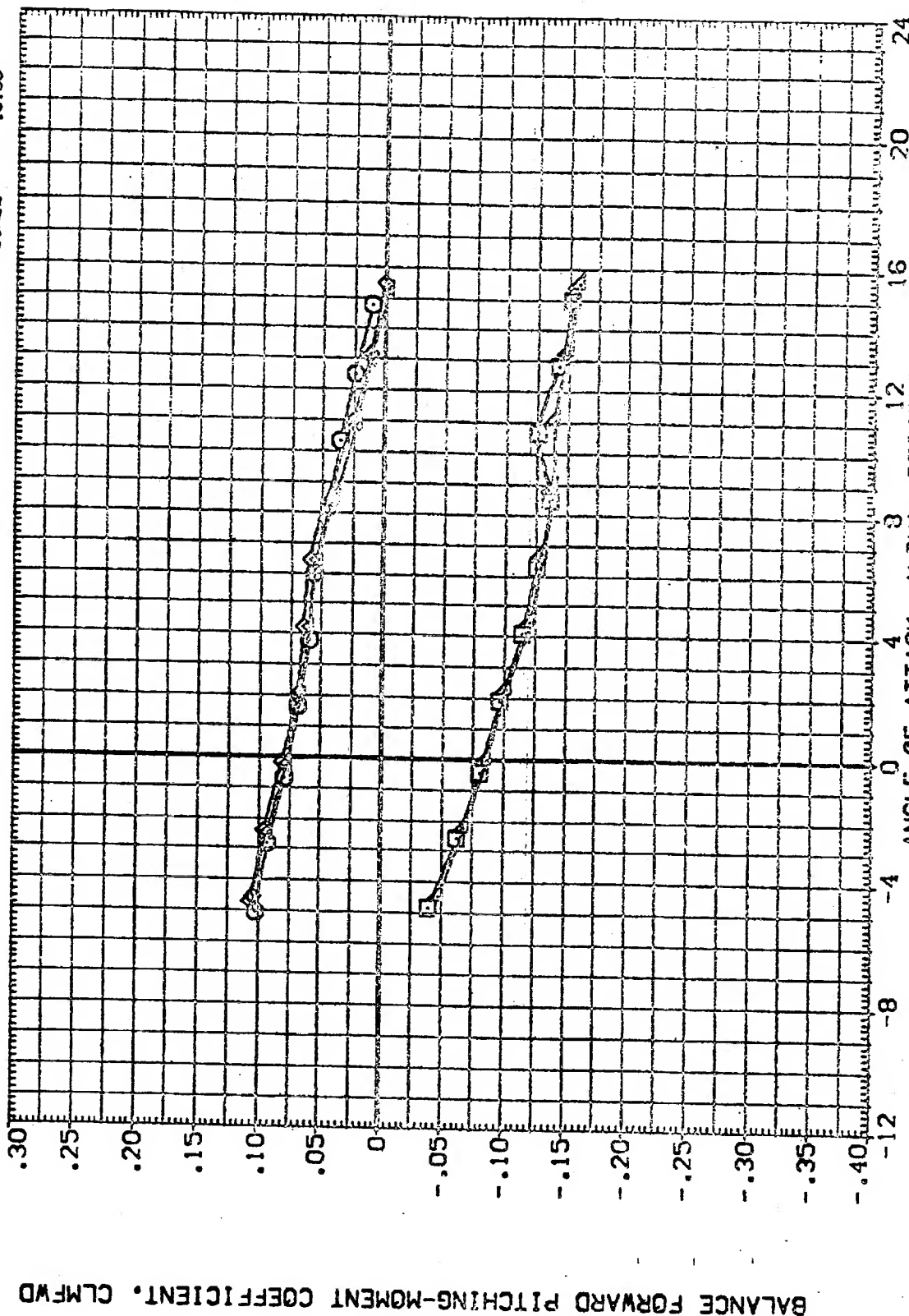


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

BETA ELEVON SOCLAP
 .000 -11.700
 .000 15.000
 .000 -11.700
 .000 -11.700
 .000 15.000
 .000 -11.700

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CER001) ARC 65-709 0459 DAI1A-(N24 RS V91)+STRUT+DUM STNG
 (CER003) DATA NOT AVAILABLE
 (CER009) DATA NOT AVAILABLE
 (CER012) ARC 65-709 0459 DAI1A-(RS V91)+STRUT
 (CER013) DATA NOT AVAILABLE

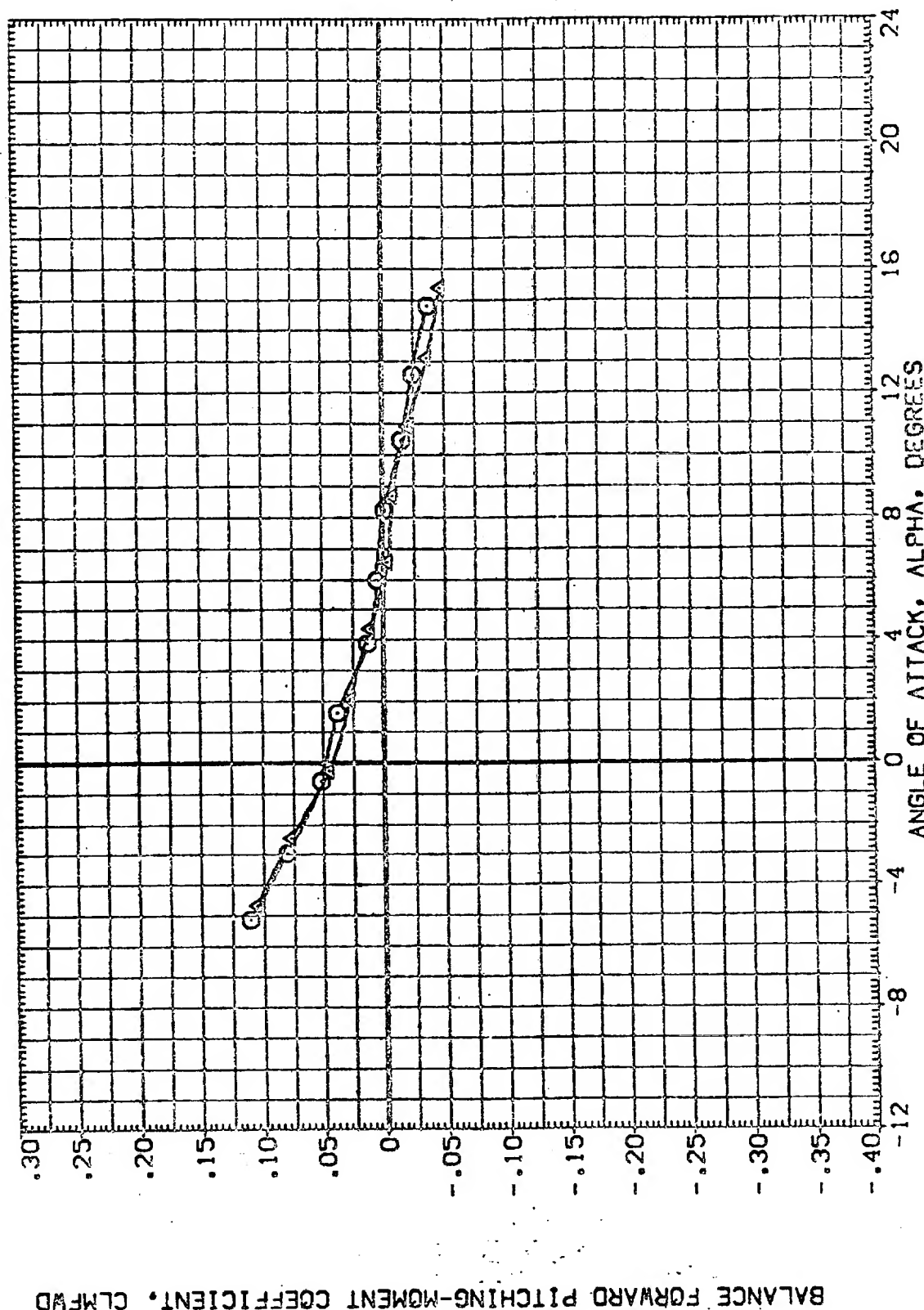







FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(GMACH = .95

DATA SET SYMBOL	SYMBOL
{ CER001 }	
{ CER003 }	
{ CER009 }	
{ CER012 }	
{ CER013 }	

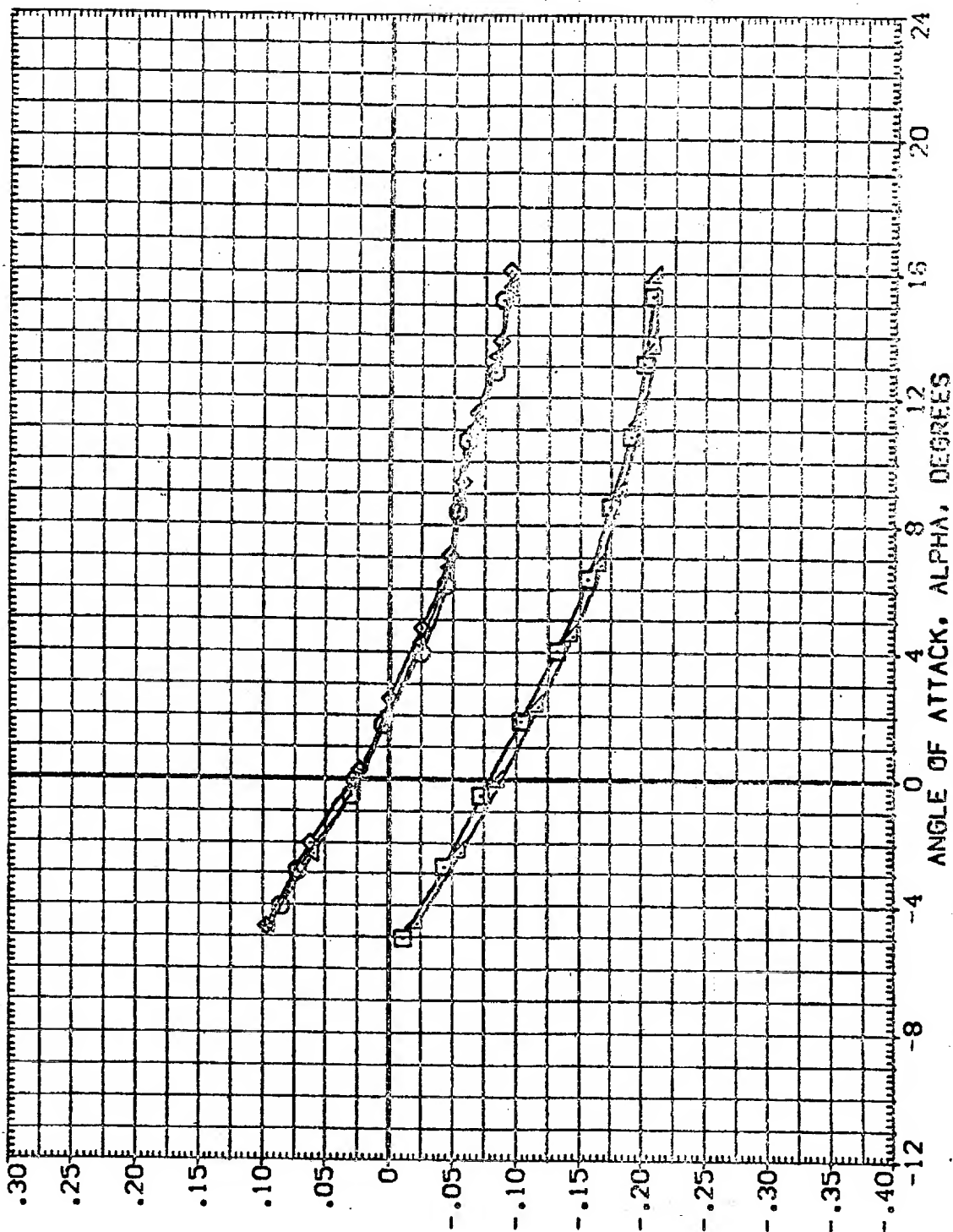


FIG. 4. ELEVON EFFECTS DURING TARE PITCH RUNS

$$[H]_{MACH} = 1.21$$

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BDFLAP

BETA	.000	-11.700
ELEVON	.000	-11.700
BDFLAP	.000	-11.700
	.000	-11.700
	.000	-11.700
	.000	-11.700
	.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709	QAS9	Q111A-(N24 RS V81)+STRUT+QJM STNG
ARC 66-709	QAS9	Q111A-(N24 RS V81)+STRUT+QJM STNG
ARC 66-709	QAS9	Q111A-(N24 RS V81)+STRUT
ARC 66-709	QAS9	Q111A-(RS V81)+STRUT
ARC 66-709	QAS9	Q111A-(RS V81)+STRUT

DATA SET SYMBOL

(CER001)	Q
(CER003)	Q
(CER009)	Q
(CER012)	Q
(CER013)	Q

BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

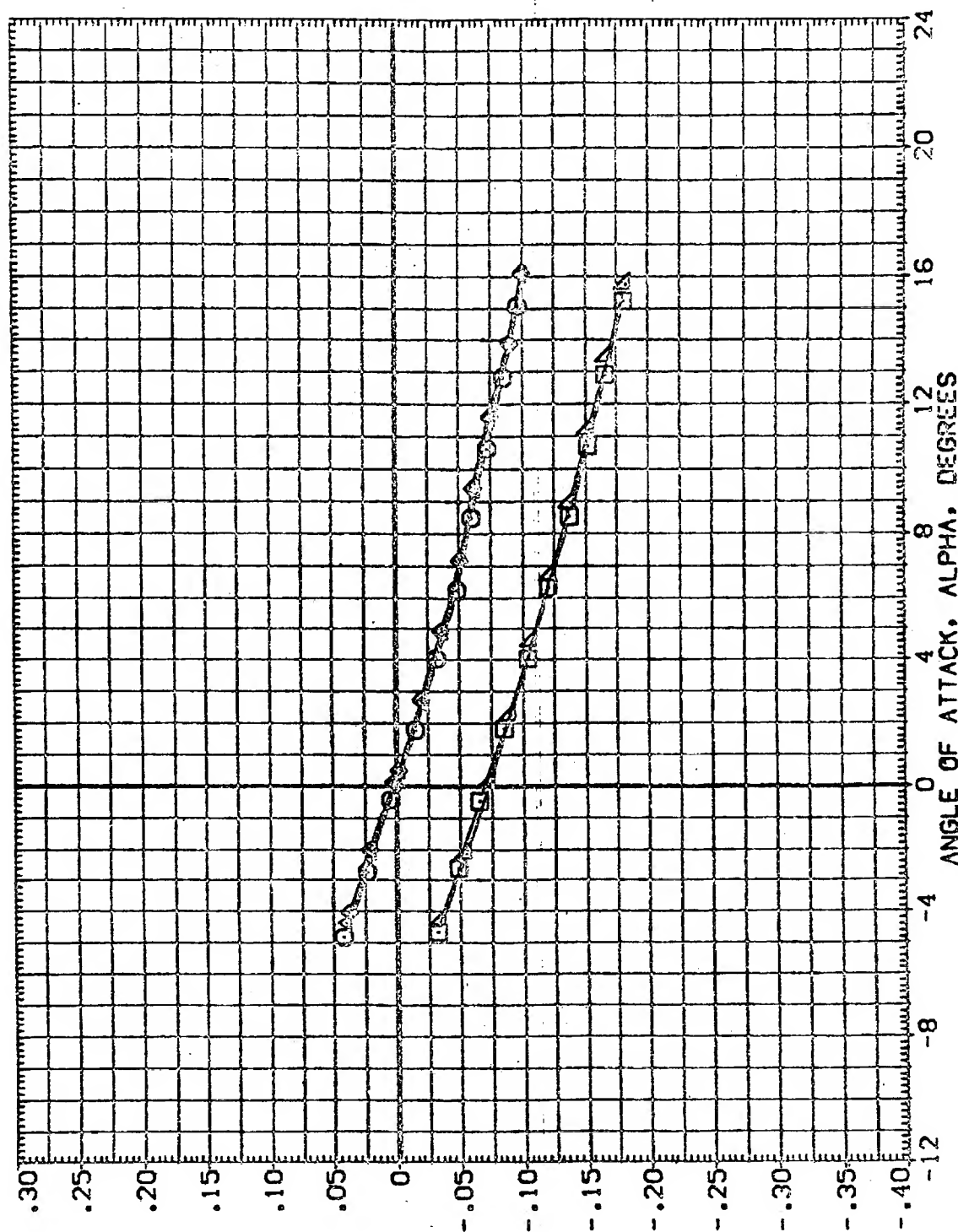


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON SCFLAP

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING .000 .000 -11.700

(CER003) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM SING .000 15.000 -11.700

(CER009) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT .000 .000 -11.700

(CER012) ARC 66-709 0A59 0A11A-(RS V81+STRUT .000 .000 -11.700

(CER013) ARC 66-709 0A59 0A11A-(RS V81+STRUT .000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 50. FT.

LREF 5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

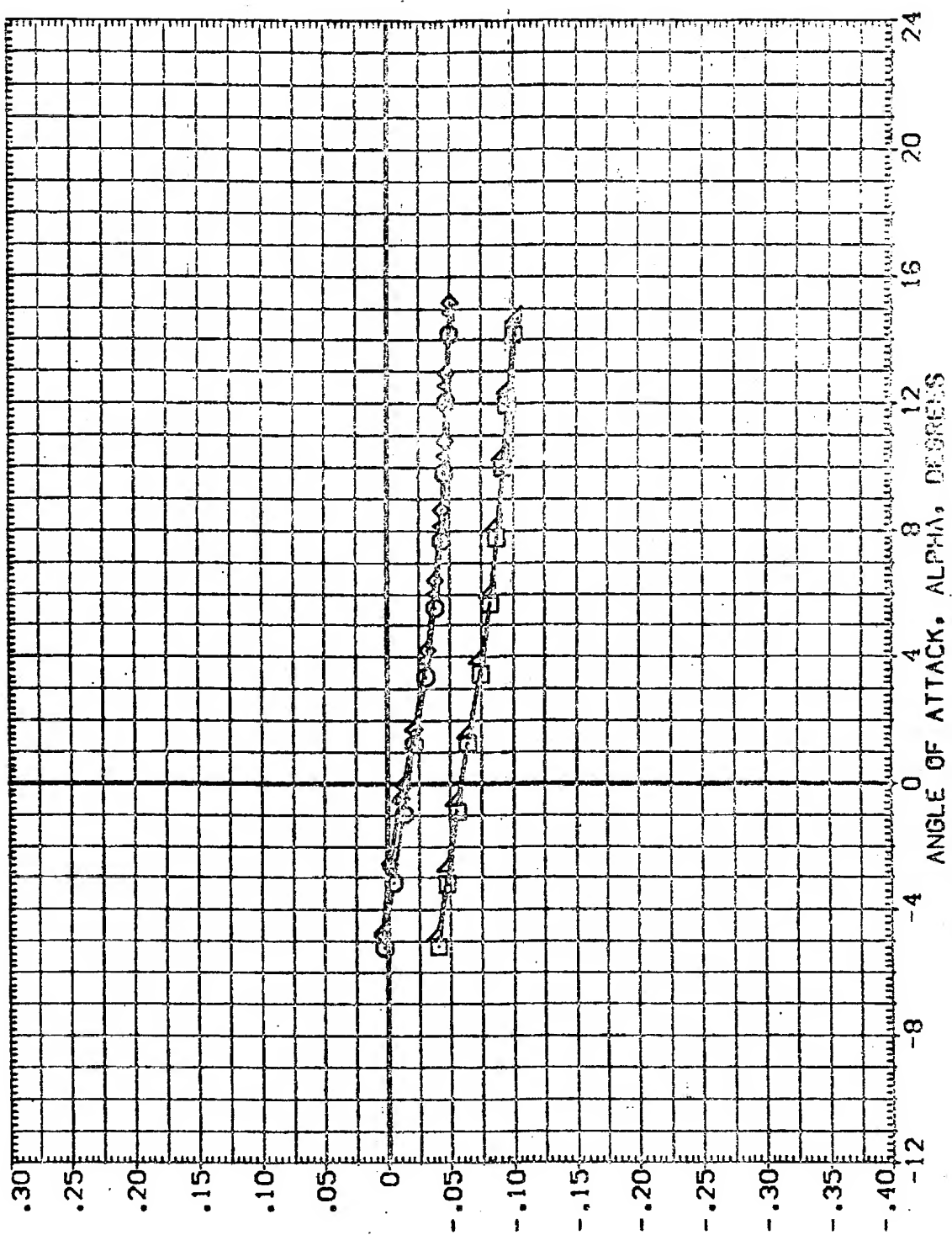


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJMACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-703 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 50. FT.
(CER003)	ARC 66-703 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-703 QAS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-703 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-703 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

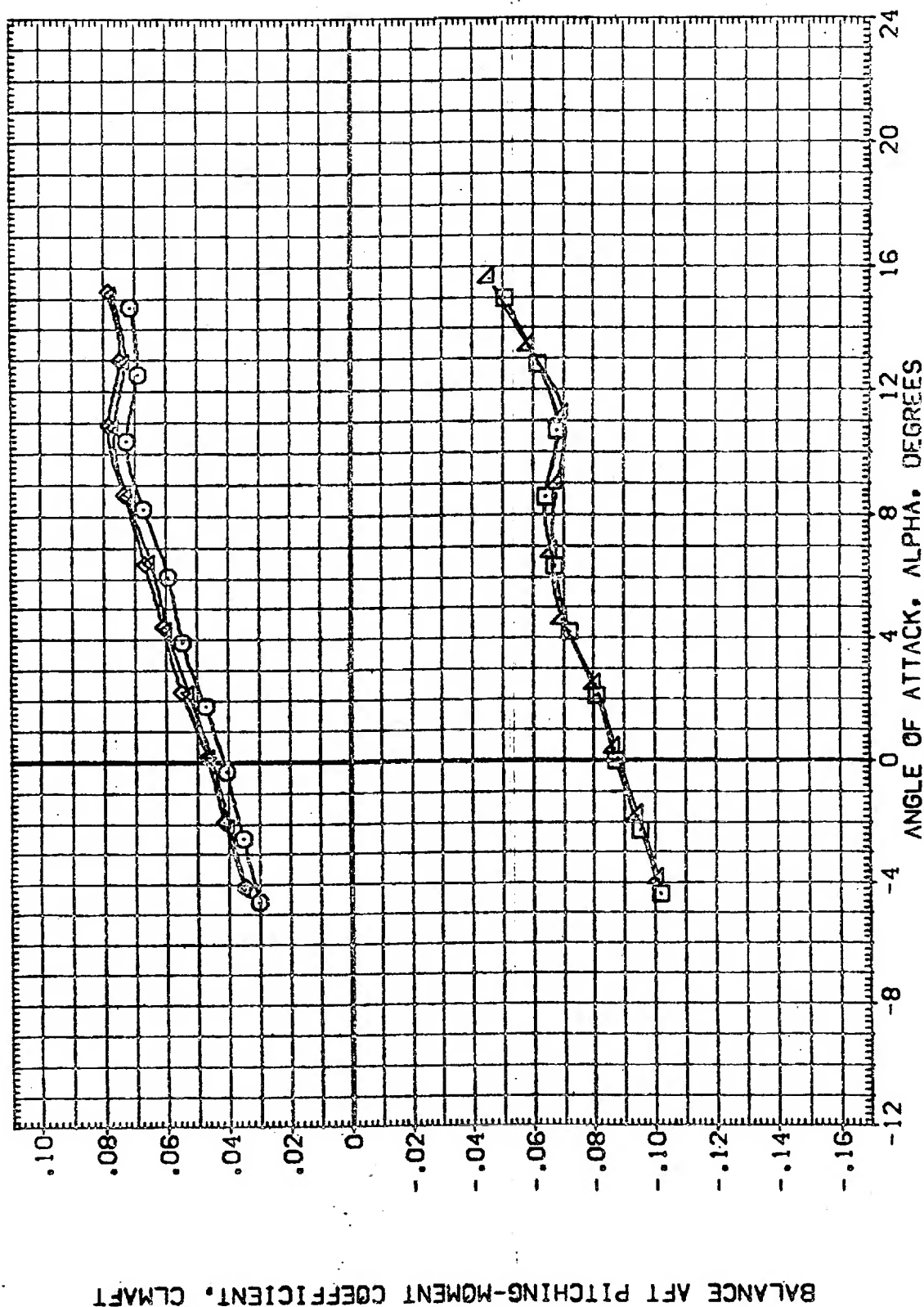


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{CER001} ARC 66-709 CAS9 DA11A-(N24 RS V81)+STRUT+DUM SING

{CER003} ARC 66-709 CAS9 DA11A-(N24 RS V81)+STRUT+DUM SING

{CER009} DATA NOT AVAILABLE

{CER012} ARC 66-709 CAS9 DA11A-(RS V81)+STRUT

{CER013} ARC 66-709 CAS9 DA11A-(RS V81)+STRUT

BETA ELEVON EDELAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .8053 59.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

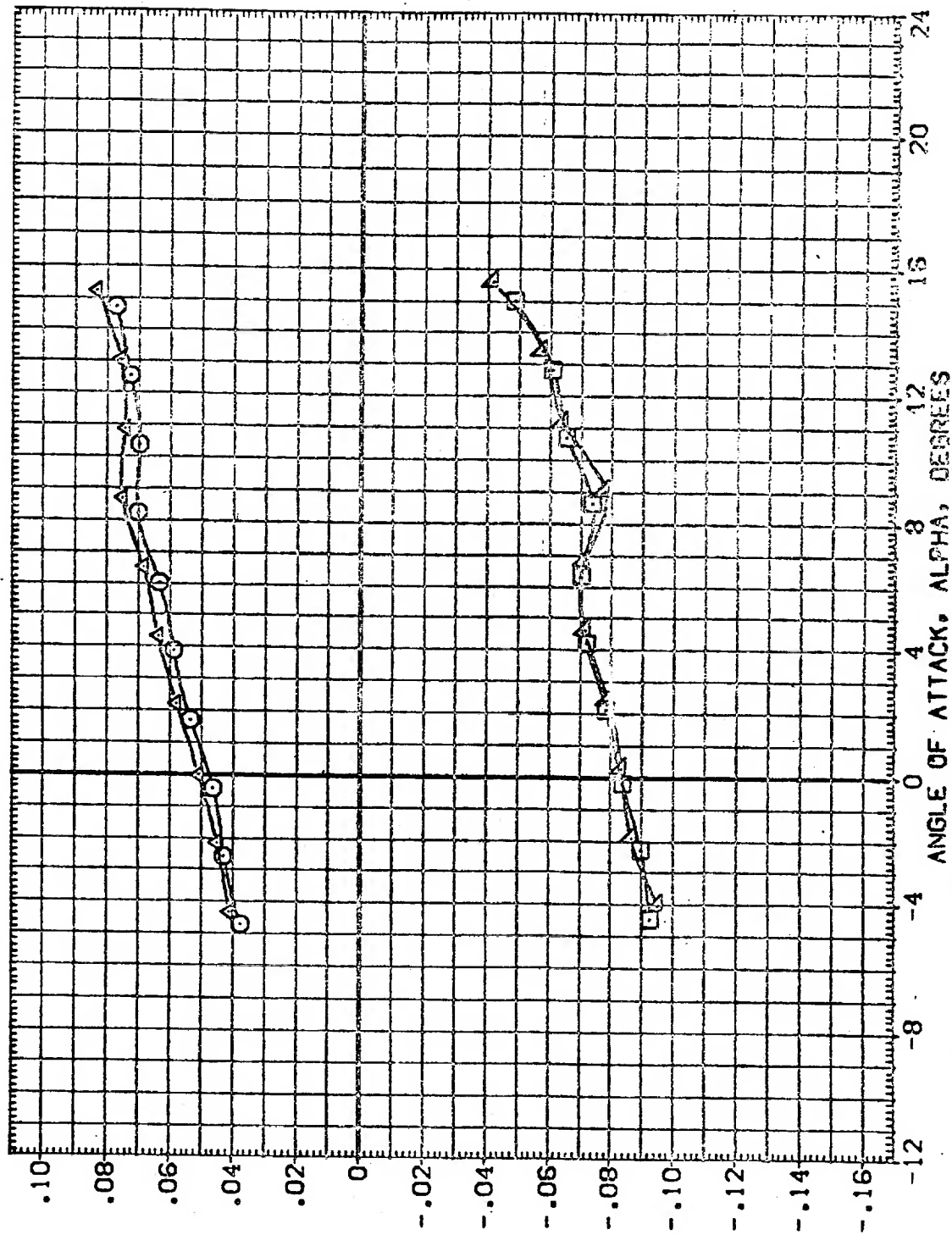


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON EOF LAP REFERENCE IN ORIENTATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EOF LAP	REFERENCE IN ORIENTATION
(CER001)	ARC 66-709 OAS9 0A11A-(N24 R5 V8)+STRUT+OUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 OAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

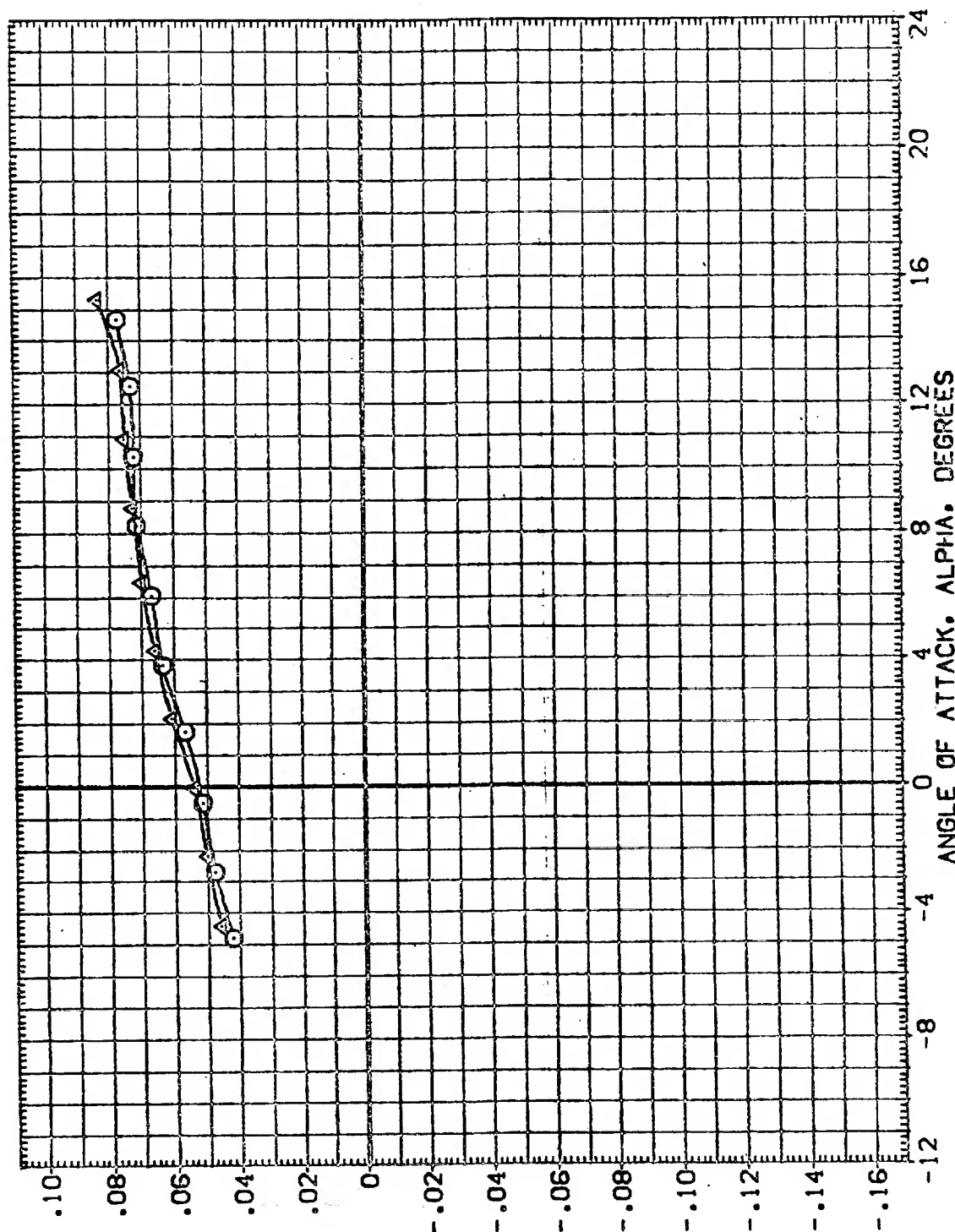


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

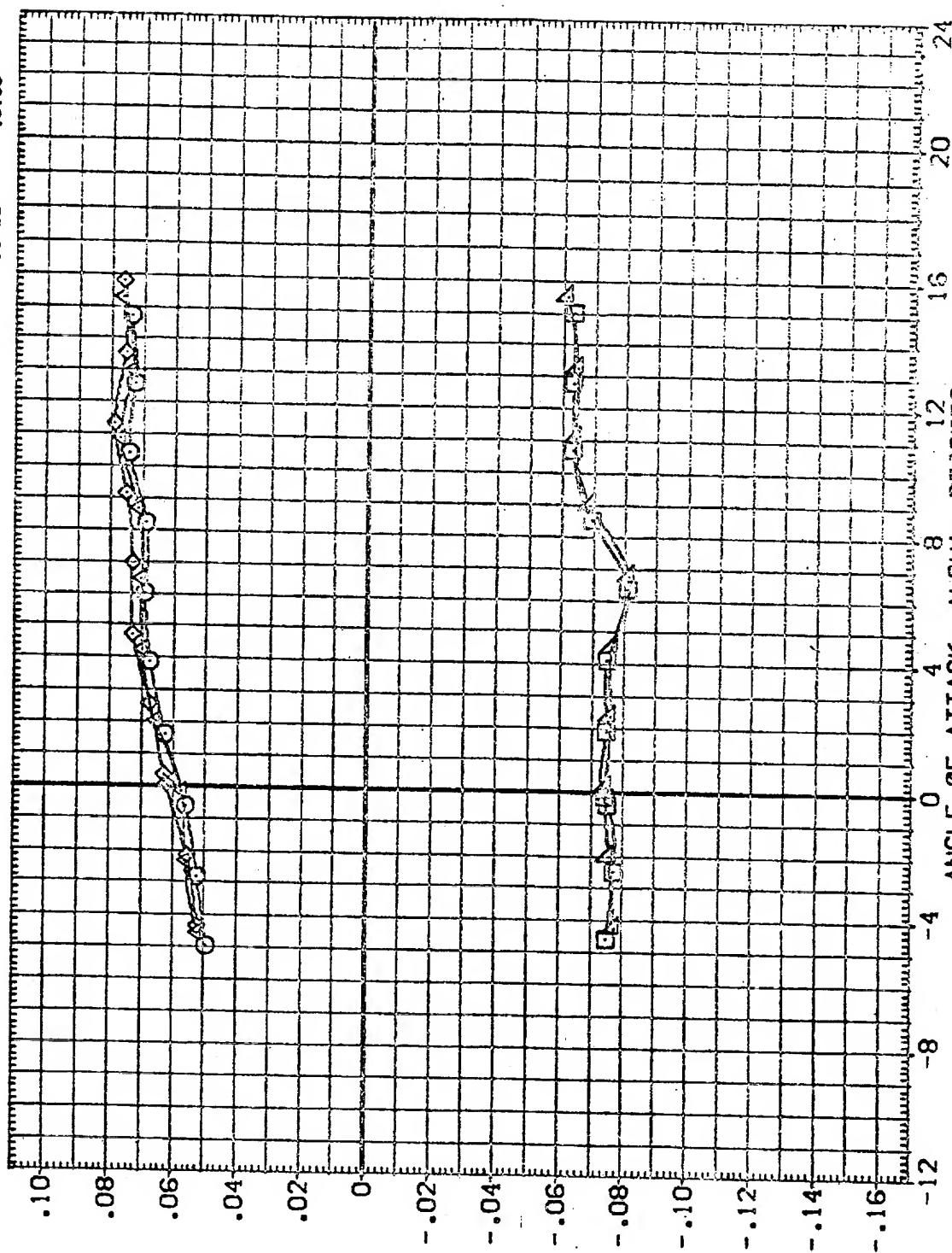
(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 OAS9 0A11A-(N24 RS V8)*STRUT+OUM STNG
 (CER003) ARC 66-709 OAS9 0A11A-(N24 RS V8)*STRUT+OUM STNG
 (CER009) ARC 66-709 OAS9 0A11A-(N24 RS V8)*STRUT
 (CER012) ARC 66-709 OAS9 0A11A-(RS V8)*STRUT
 (CER013) ARC 66-709 OAS9 0A11A-(RS V8)*STRUT

BETA .000
 ELEVON .000
 COFLAP -11.700
 .000
 15.000
 .000
 .000
 .000
 15.000
 -11.700
 -11.700
 -11.700
 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BRPF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CMAFT

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(DMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	OVERLAP	REFERENCE INFORMATION
(CER001)	ARC 65-709 DASS DALLA-IN24 (RS V81)+STRUT+DLM STING	.000	.000	-11.700	GREF .6053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 65-709 DASS DALLA-IN (RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

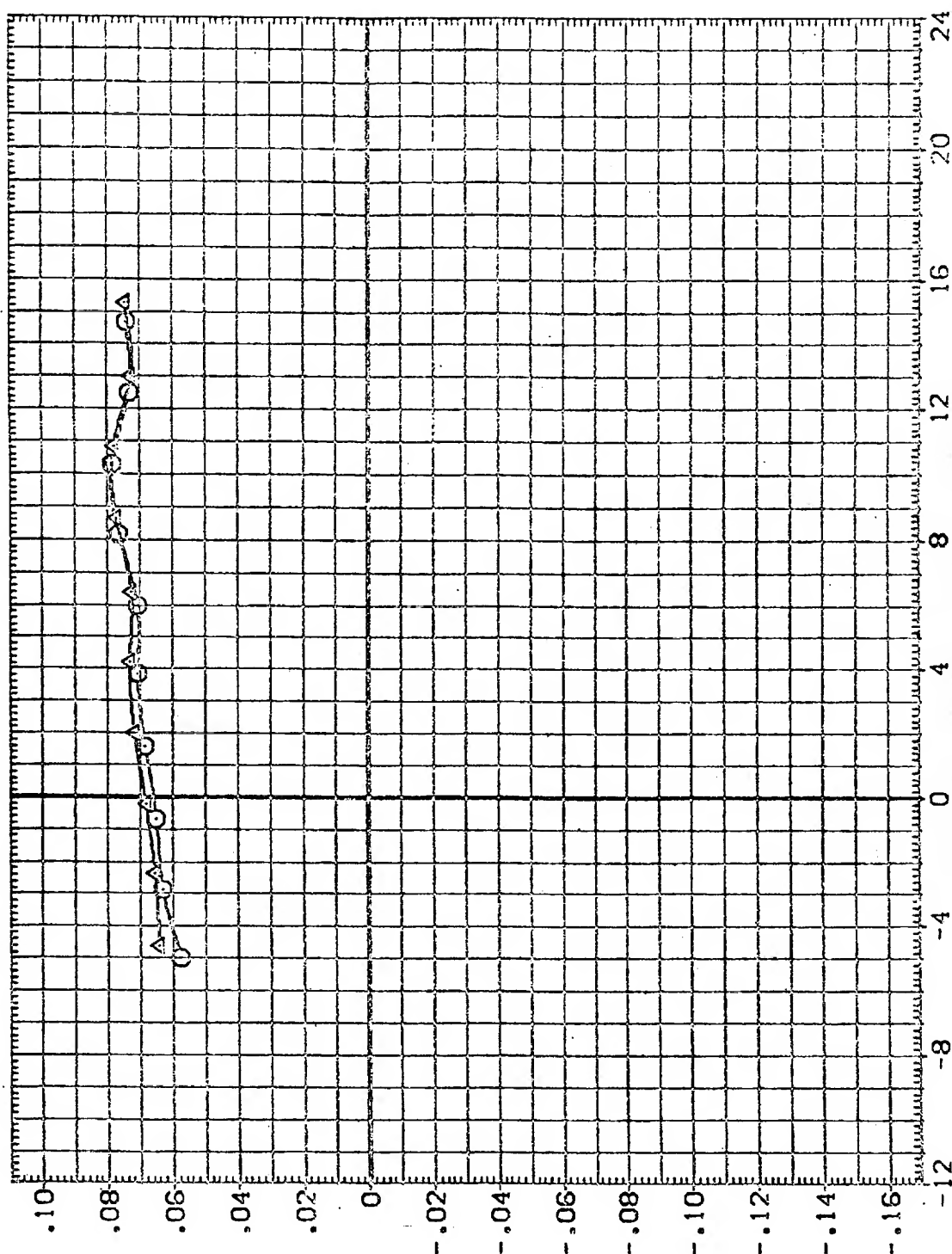


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON ED/LAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	ED/LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .0053 50 FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5335 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT	.000	.000	-11.700	SREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	YMRP 12.6755 IN.
(CER013)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

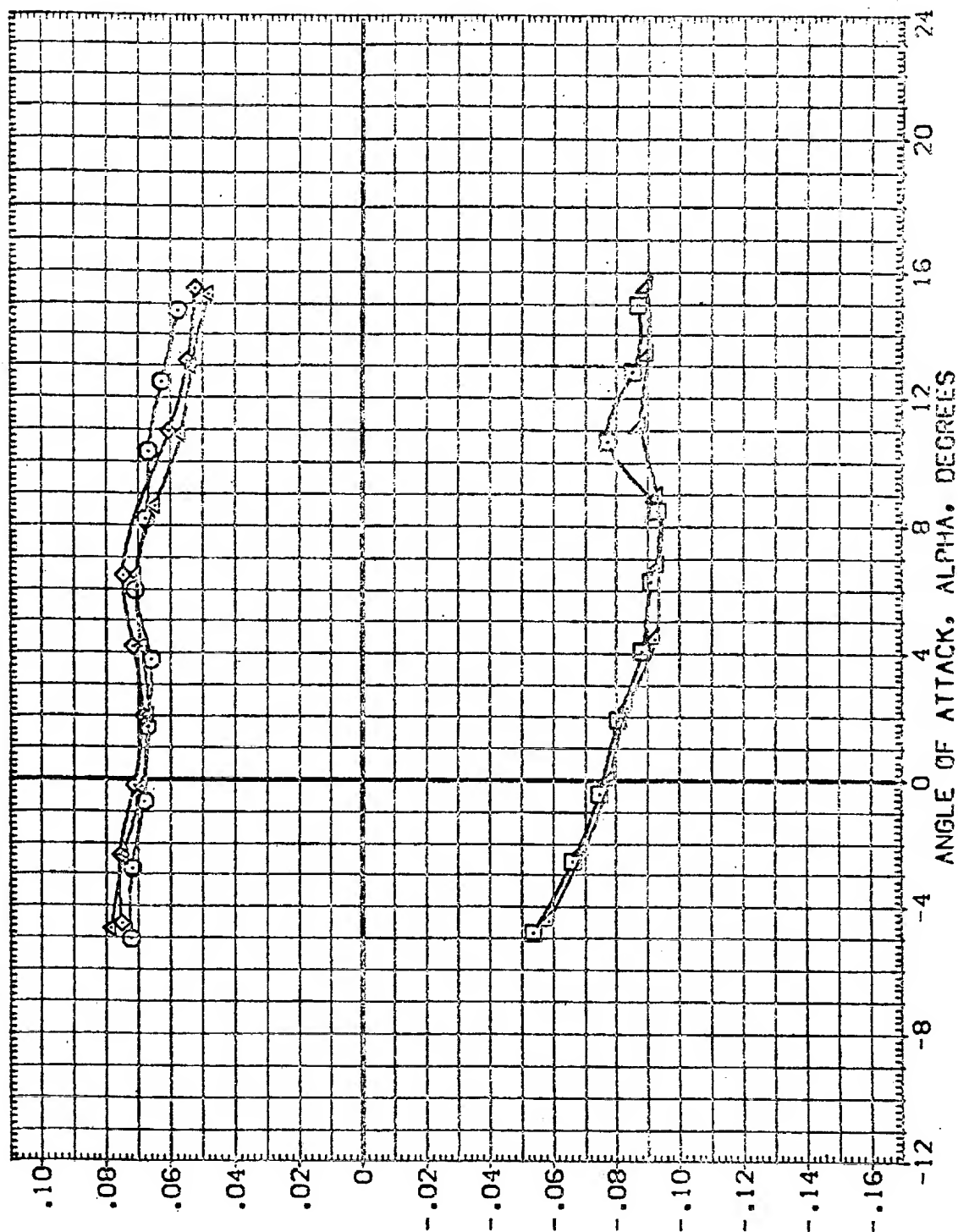


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION

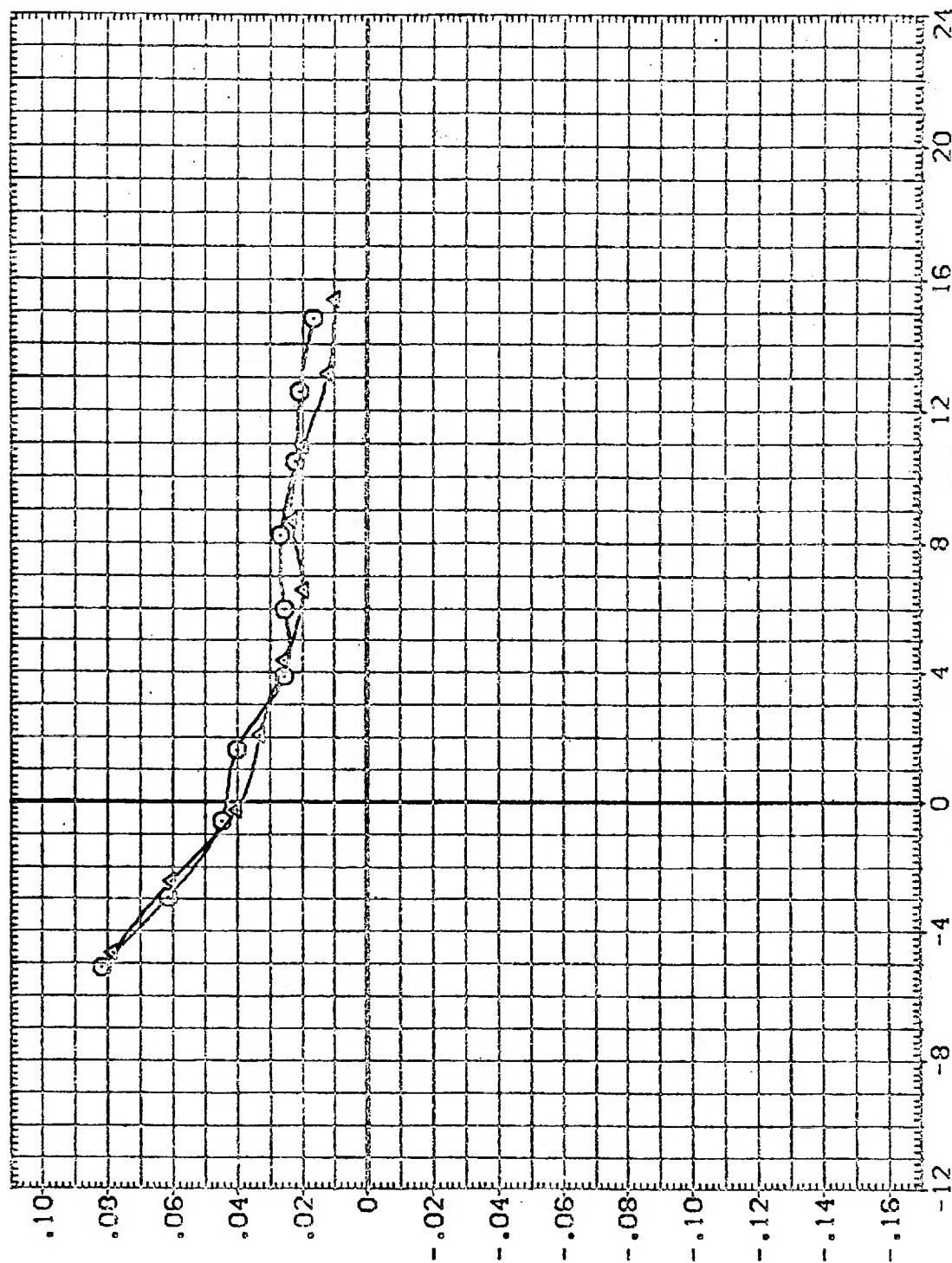
SREF	.8053	50 FT.
UREF	.9335	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON 80FLAP

BETA	.000	-11.700
ELEVON	.000	-11.700
80FLAP	.000	-11.700
15.000	.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	.000	-11.700

DATA SET SWGRL

CONFIGURATION DESCRIPTION	ARC SS-709 OASO QAL1A-(N24 RS V8)+STRUT+DUM STNG
(CER001)	DATA NOT AVAILABLE
(CER003)	DATA NOT AVAILABLE
(CER009)	DATA NOT AVAILABLE
(CER012)	ARC SS-709 OAS9 QAL1A-(R3 V8)+STRUT
(CER013)	DATA NOT AVAILABLE



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CLMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EDFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

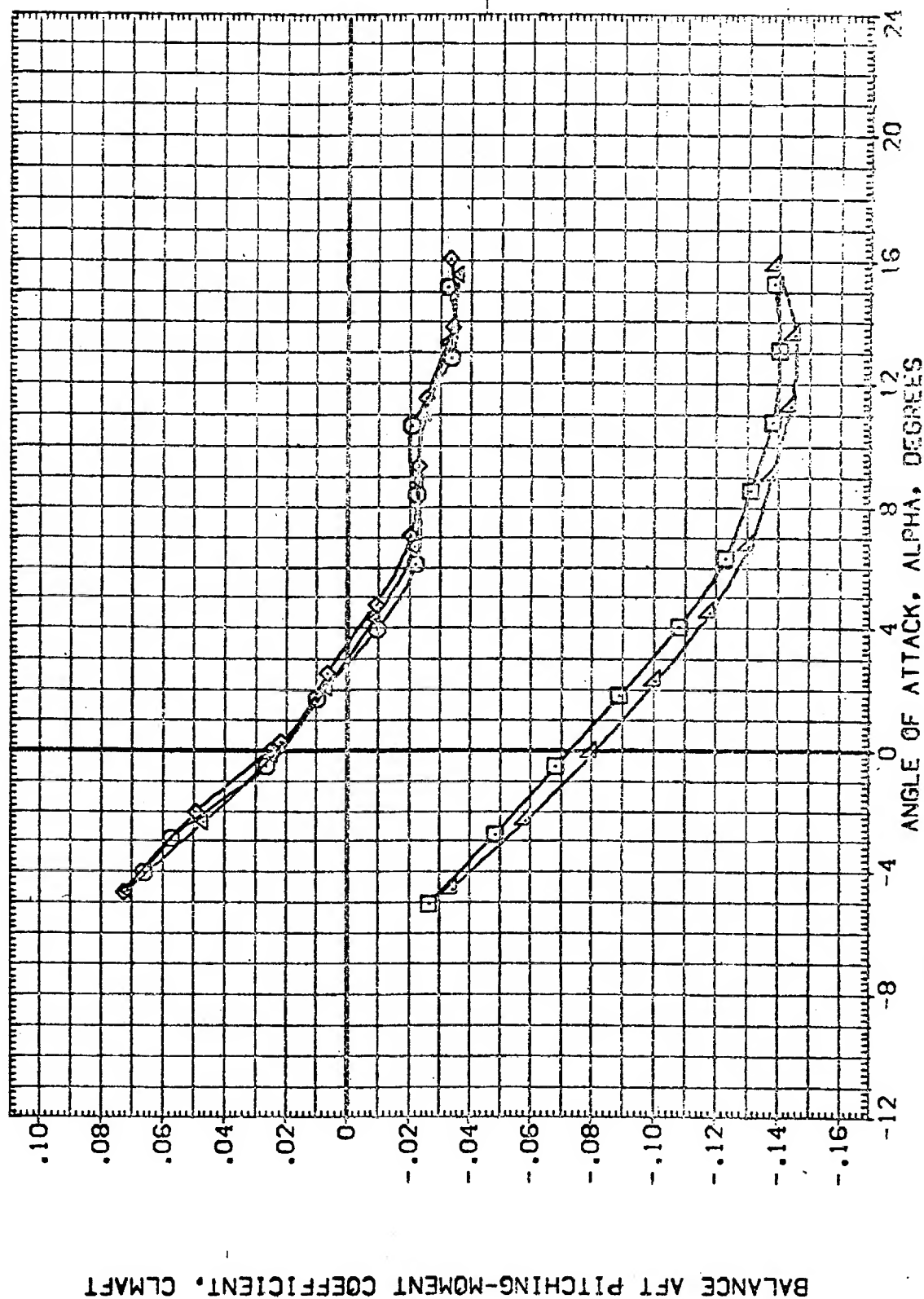


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT+DLM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT+DLM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 DASS DA11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER013)	ARC 66-709 DASS DA11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

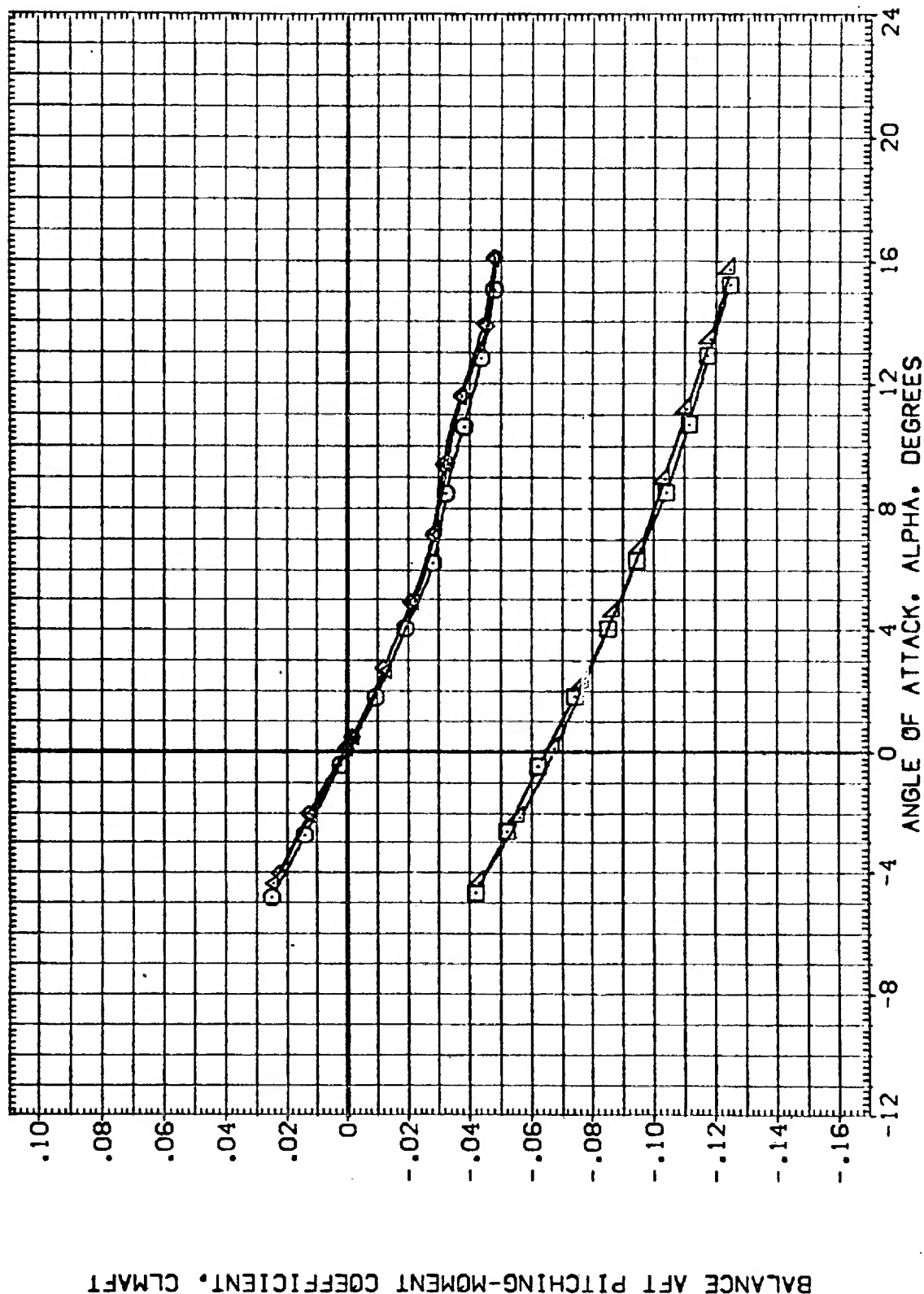
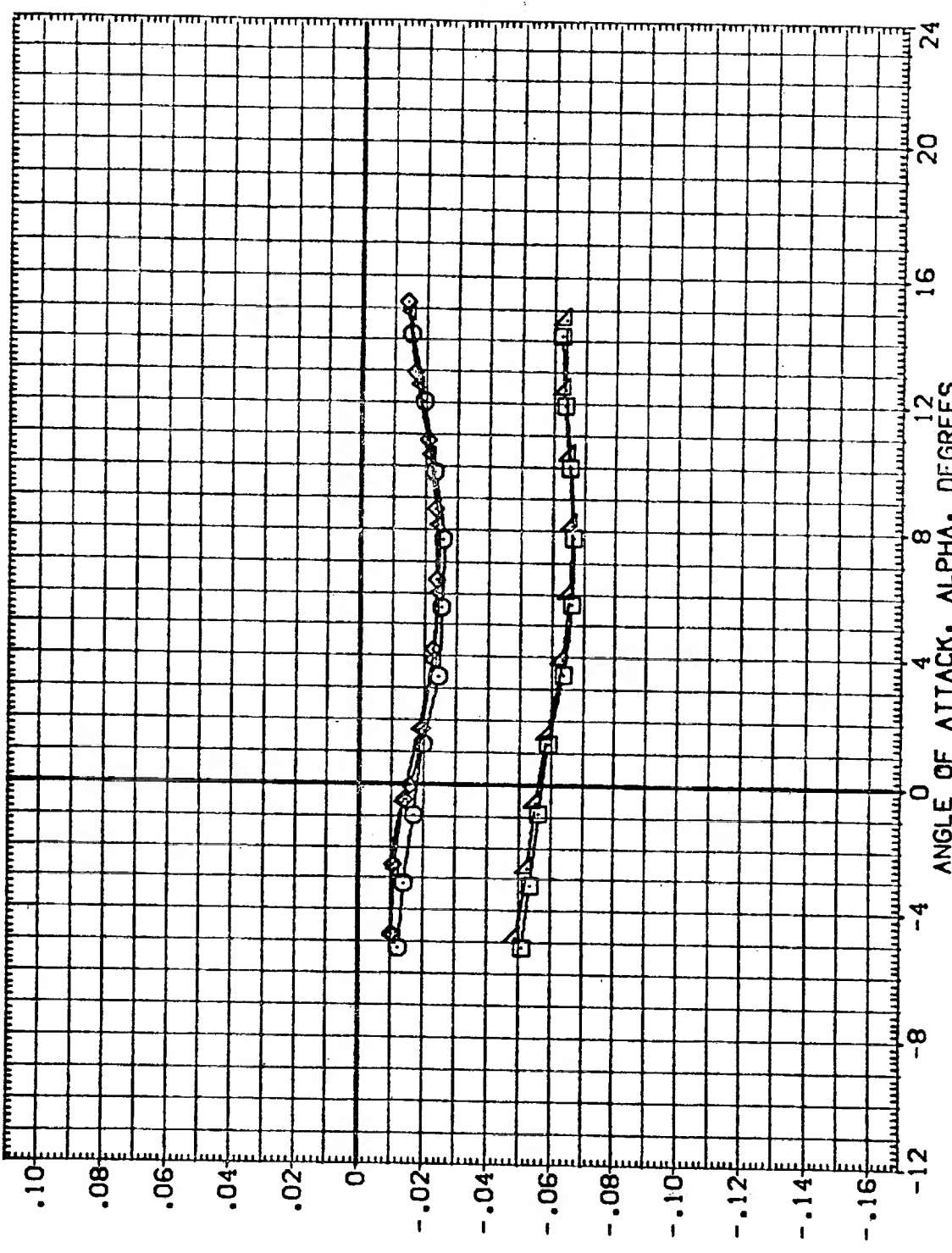


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
{CER003}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
{CER009}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



Balance Aft Pitching-Moment Coefficient, CMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V3)+STRUT+CLM STNG	.000	.000	-11.700	SREF .6053 59. FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V3)+STRUT+CLM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V3)+STRUT	.000	.000	-11.700	GREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

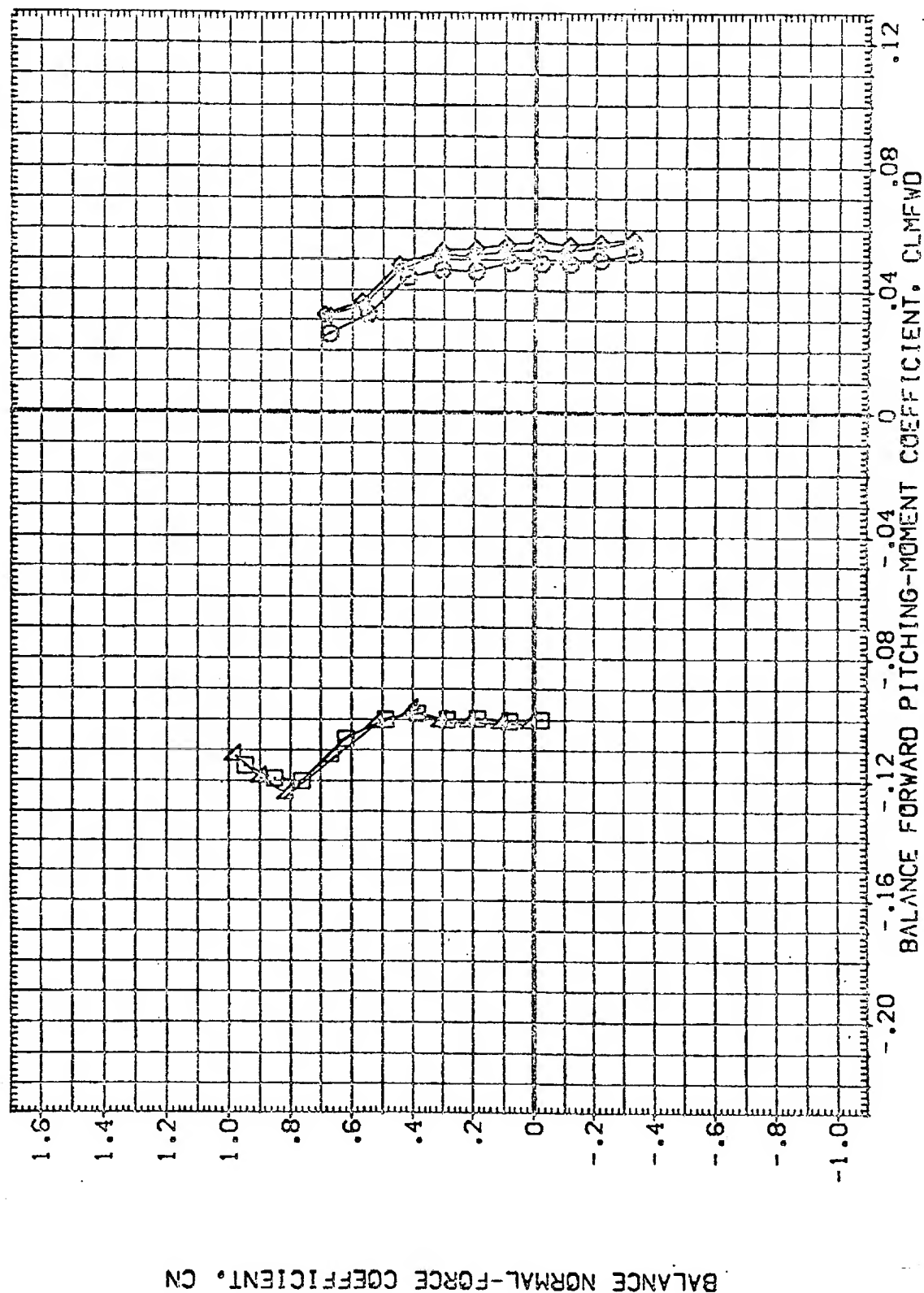


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON 50% LAP

[CER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 .000 -11.700
 [CER003] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 15.000 -11.700
 [CER009] DATA NOT AVAILABLE .000 .000 -11.700
 [CER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 .000 -11.700
 [CER013] ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 YMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

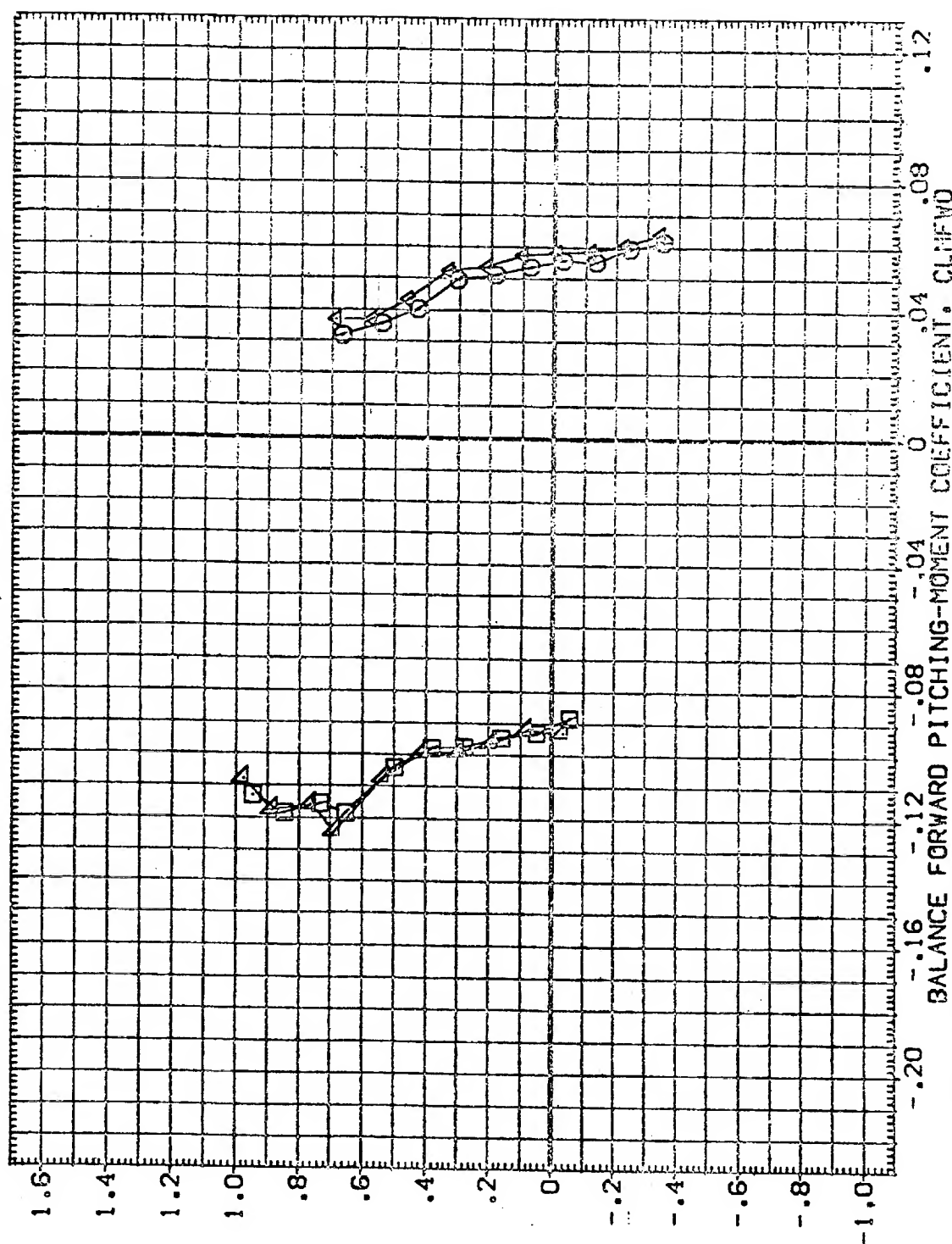


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-703 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 30.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER002)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-703 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

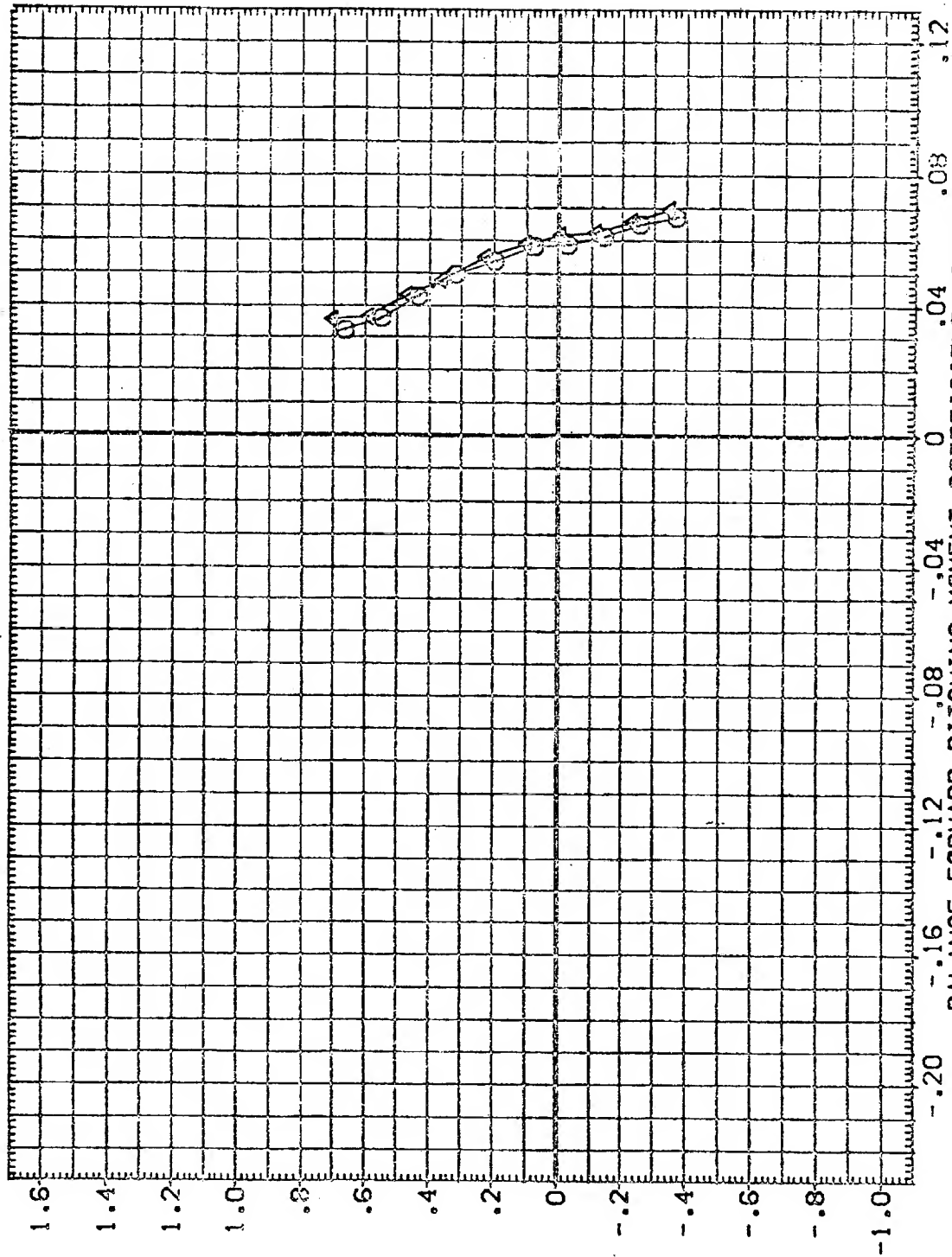


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

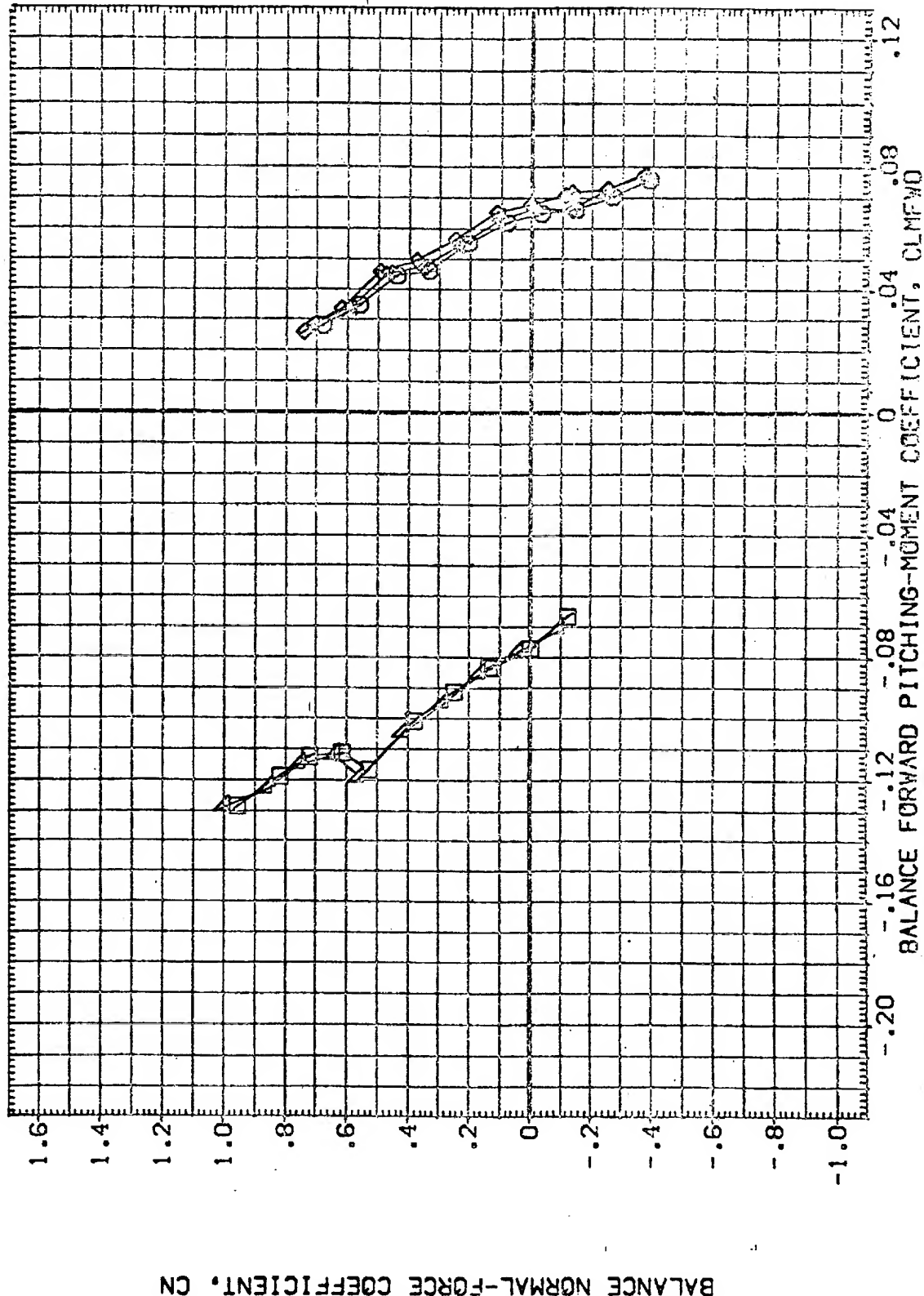


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

COMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 OALIA-(N24 R5 V81)+STRUT+OUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 OAS9 OALIA-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

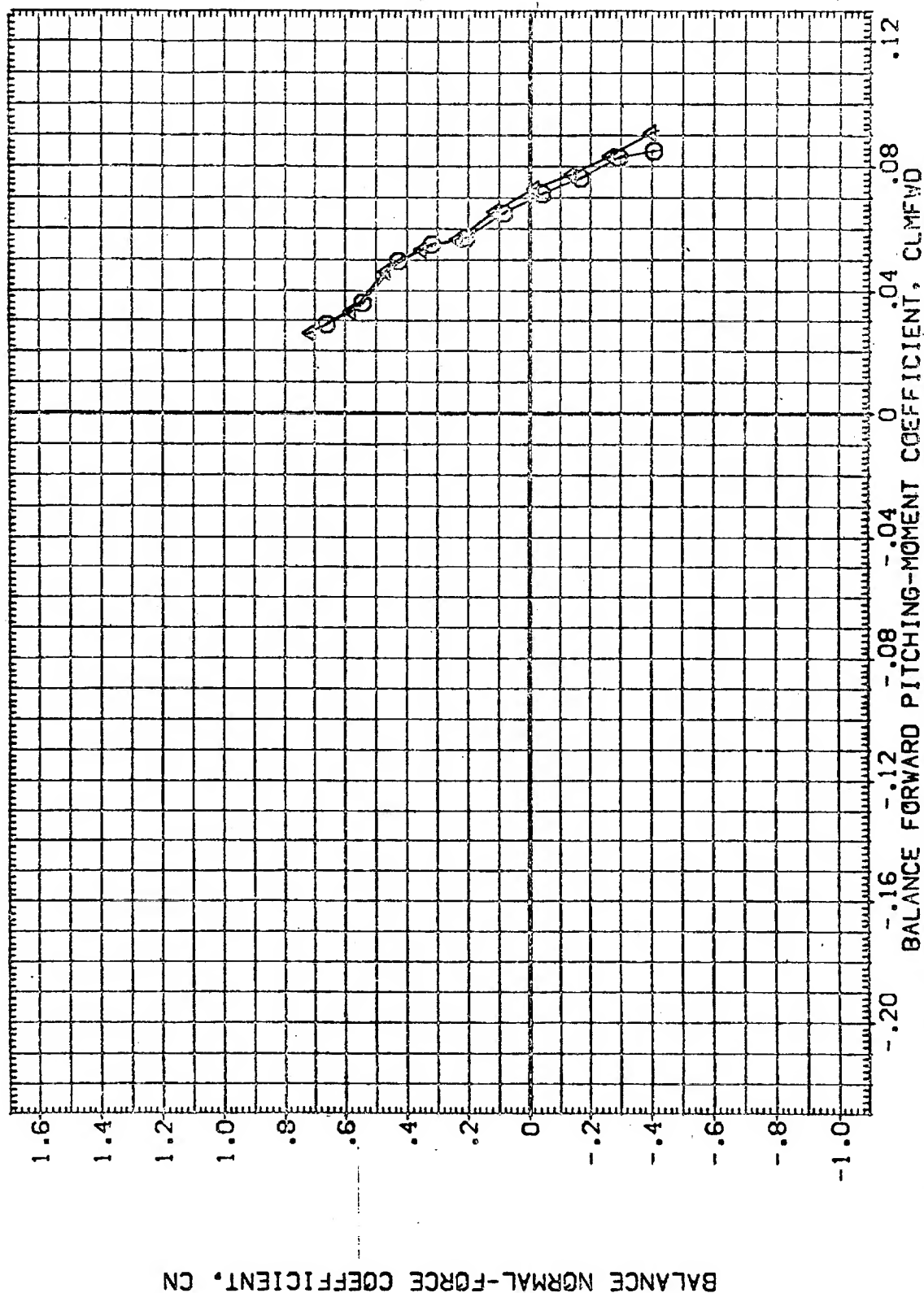


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOCLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
{CER003}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
{CER009}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER013}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

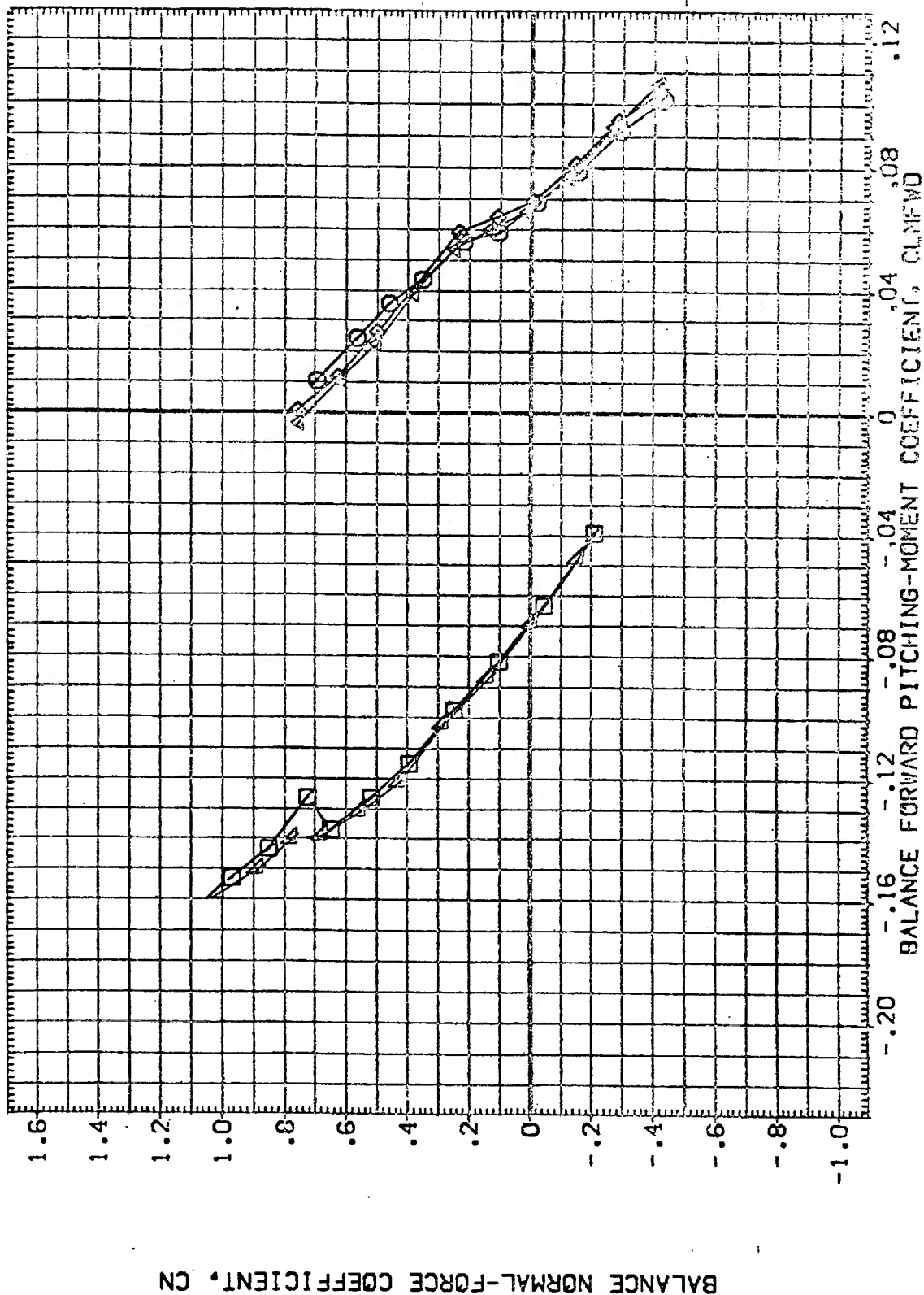


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

{CER001}	ARC 66-709 0A59 0A11A-(N21 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER003}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{CER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
{CER013}	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

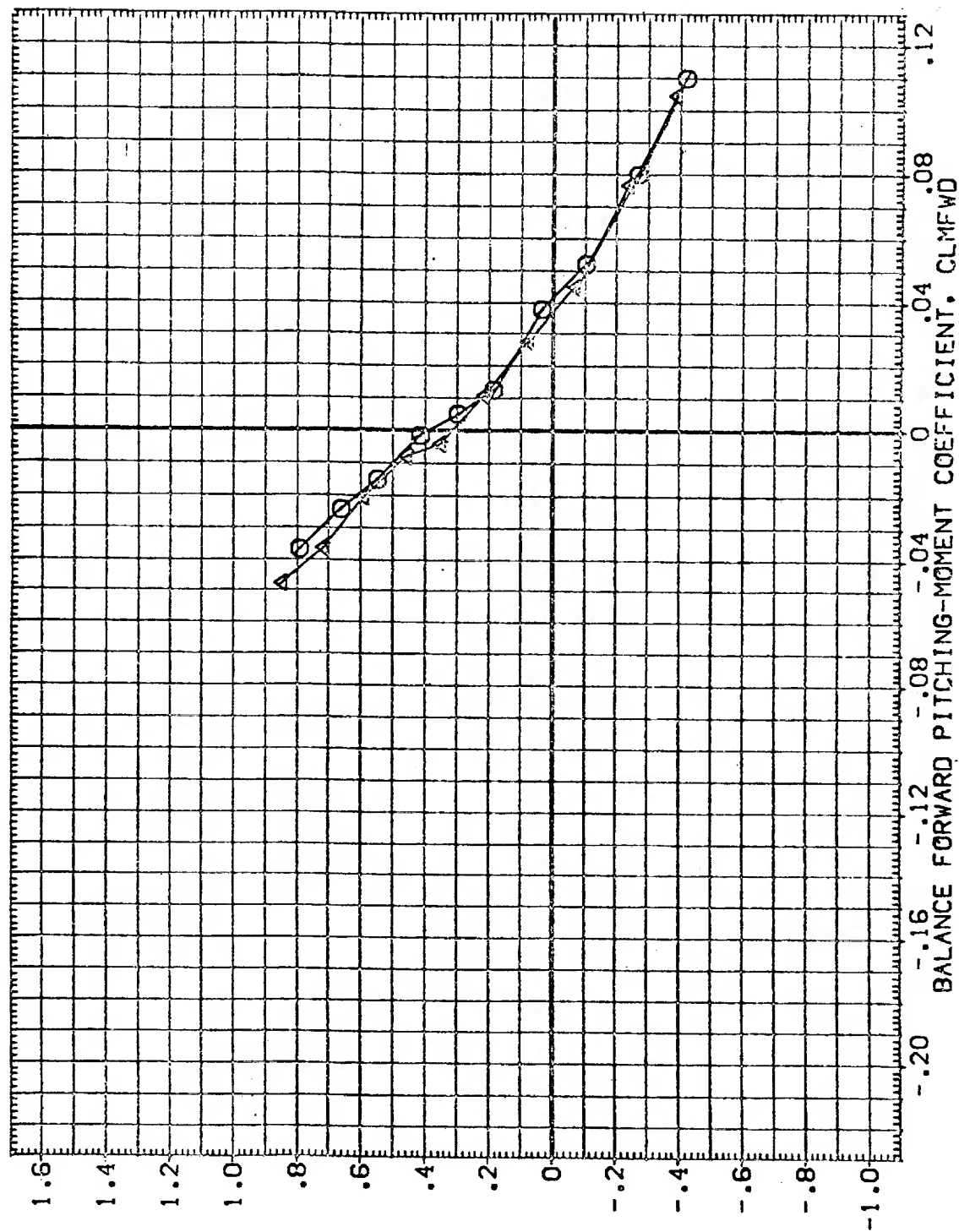


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[CER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QJM STNG
 [CER003] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QJM STNG
 [CER009] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 [CER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 [CER013] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA .000
 ELEVON .000
 EDOFLAP -11.700

REFERENCE INFORMATION
 SREF .5053 SQ.FT.
 LREF .5335 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

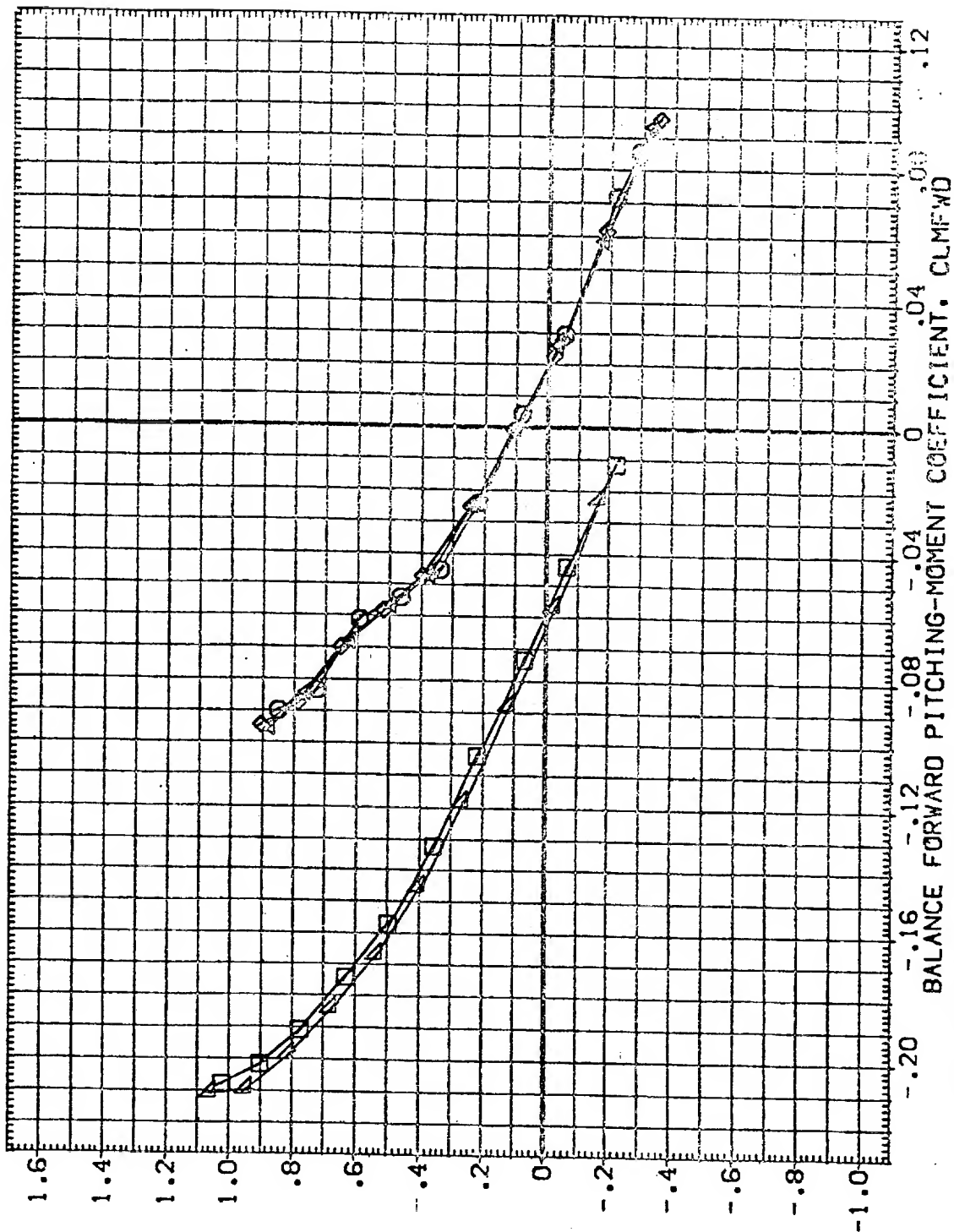


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING .000 .000 -11.700

(CER003) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING .000 15.000 -11.700

(CER009) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT .000 .000 -11.700

(CER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 -11.700

(CER013) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

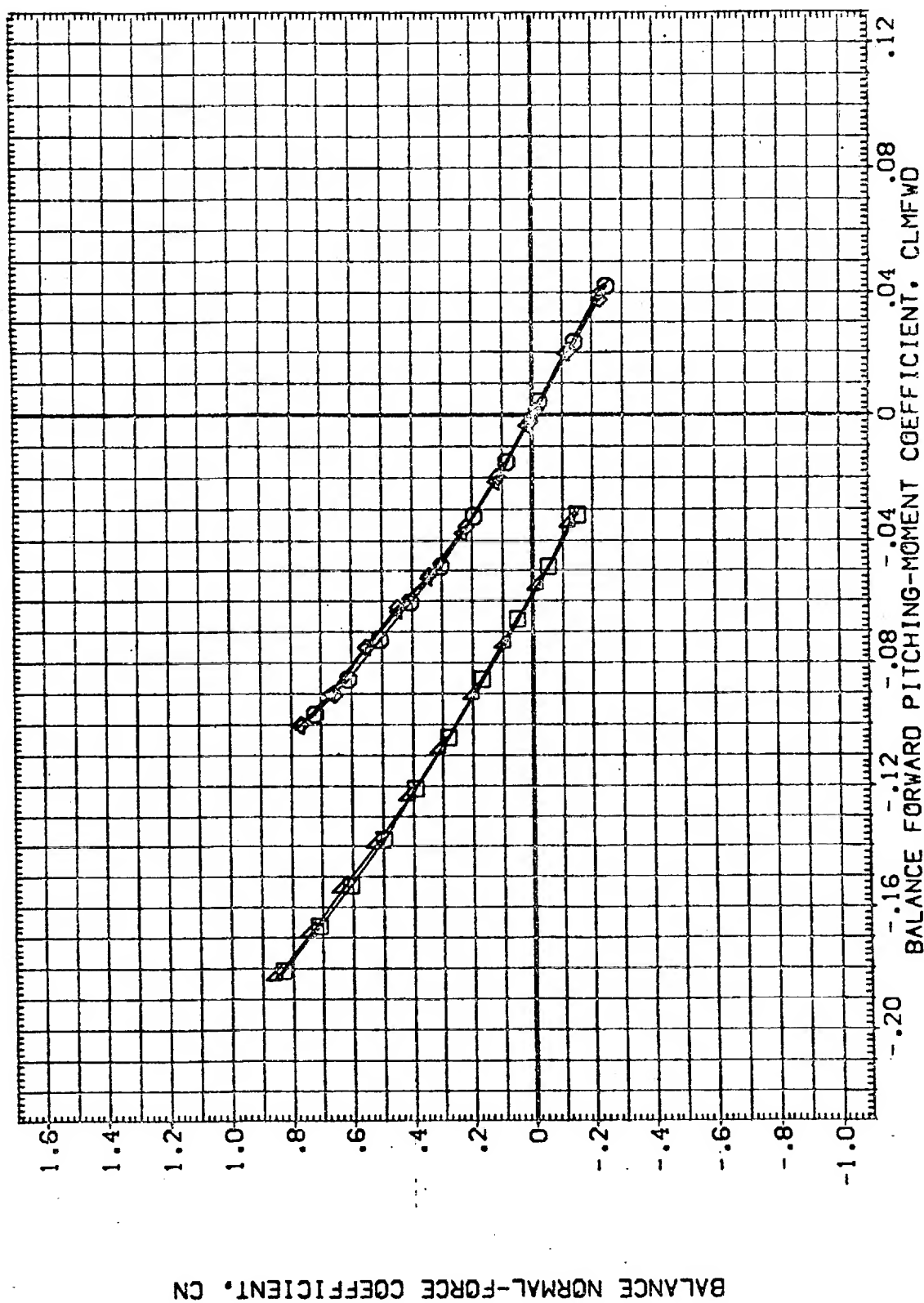


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

(CER003) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

(CER009) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT

(CER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(CER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON 30FLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

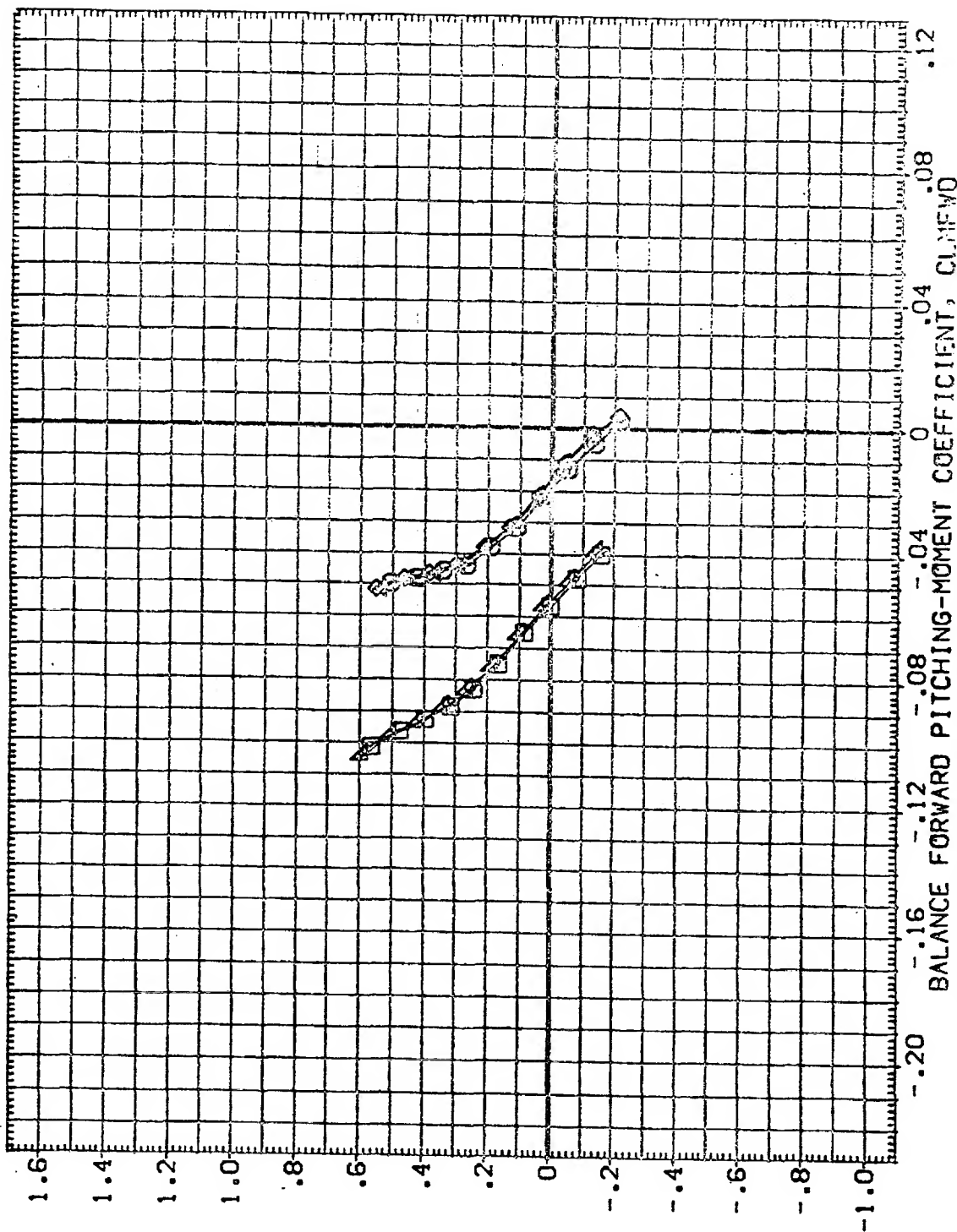





FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS


(J)MACH = 2.00


DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)  ARC 65-709 QAS9 GA11A-(N24 RS V8)+STRUT+CLM STNG

(CER003)  ARC 65-709 QAS9 GA11A-(N24 RS V8)+STRUT+CLM STNG

(CER009)  ARC 66-709 QAS9 GA11A-(N24 RS V8)+STRUT

(CER012)  ARC 66-709 QAS9 GA11A-(RS V8)+STRUT

(CER013)  ARC 66-709 QAS9 GA11A-(RS V8)+STRUT

BETA ELEVON SCLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .5053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

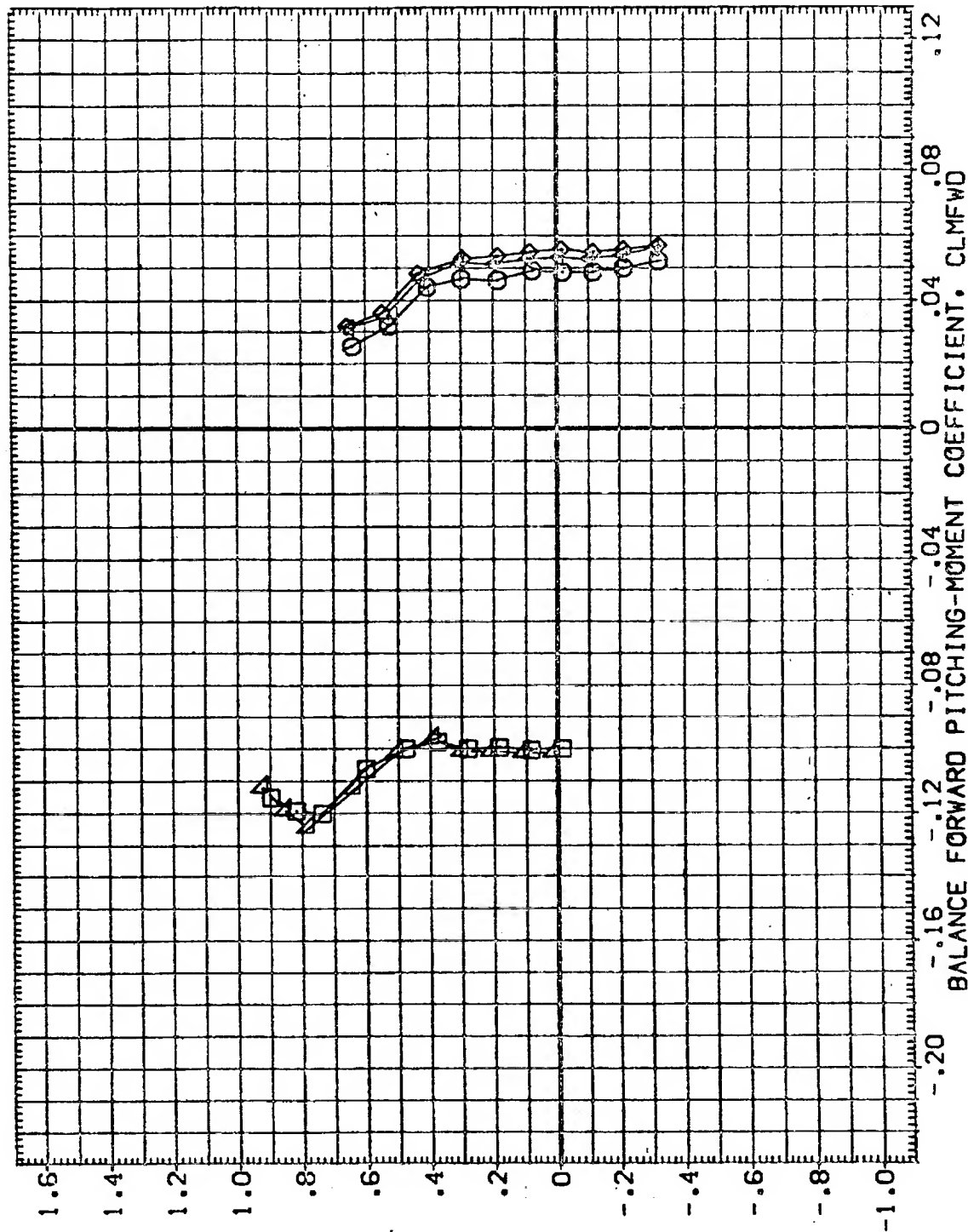


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDFLAP REFERENCE INFORMATION

(CER001) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG .000 .000 -11.700 SREF .6053 50. FT.

(CER003) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG .000 .000 -11.700 LREF .5935 FT.

(CER009) DATA NOT AVAILABLE .000 .000 -11.700 BREF 1.1710 FT.

(CER012) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT .000 .000 -11.700 XMRP 12.6255 IN.

(CER013) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT .000 .000 -11.700 YMRP .0000 IN.

SCALE .3750 IN.

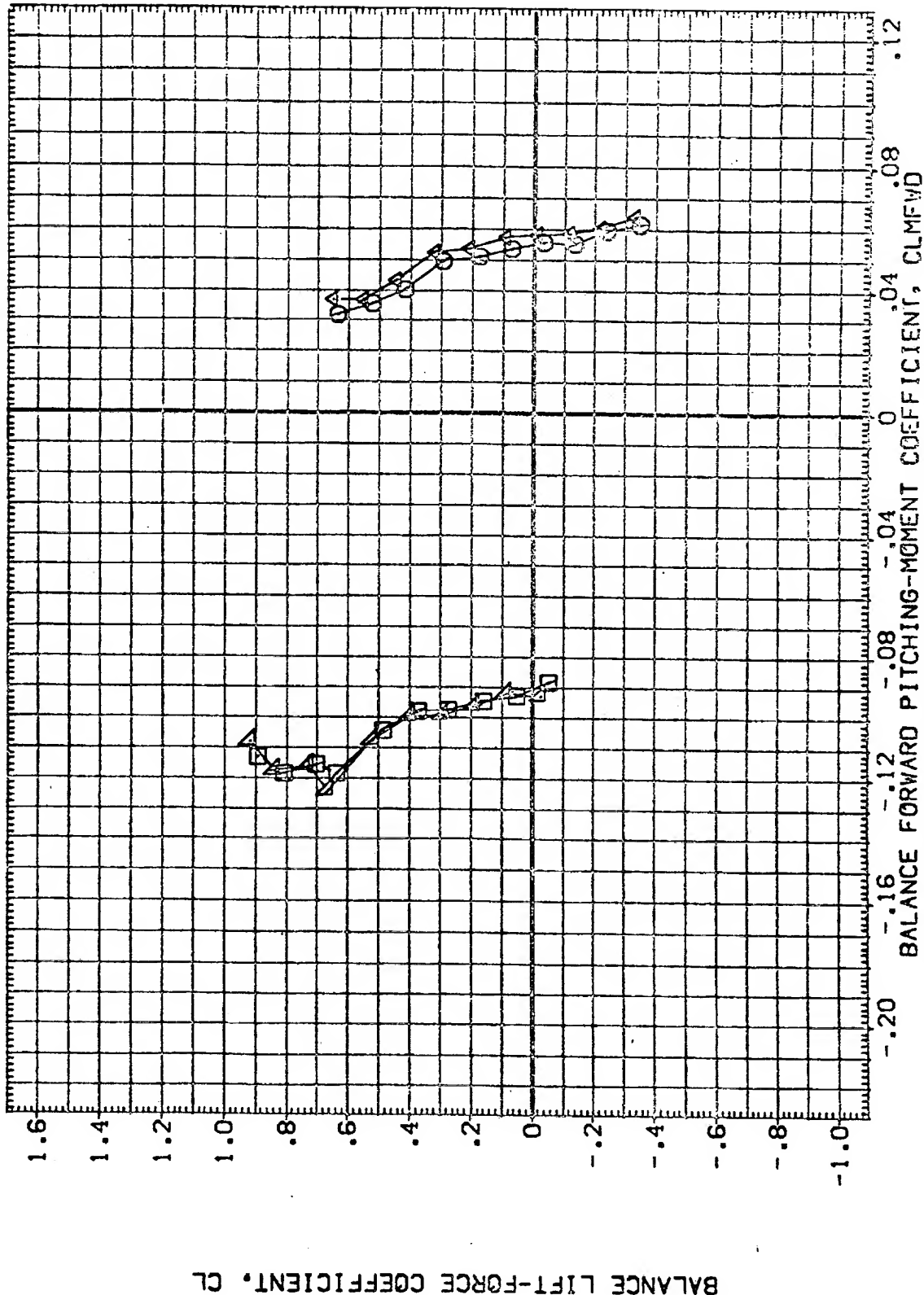


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 Q111A-(N24 RS V81)+STRUT+QUM STING	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 Q111A-(RS V91)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

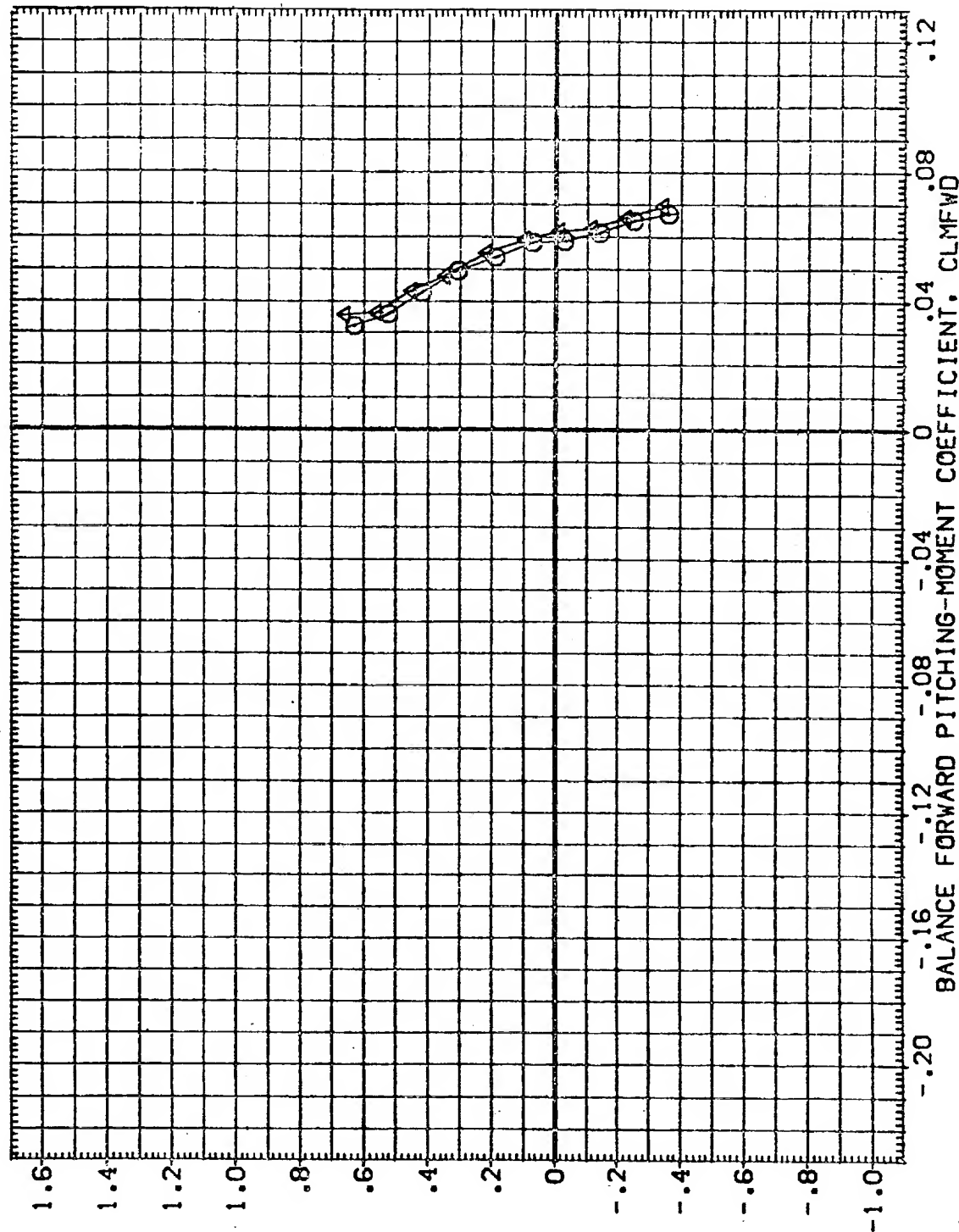


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	
{CER001}	□
{CER003}	◇
{CER009}	◇
{CER012}	◇
{CER013}	◇

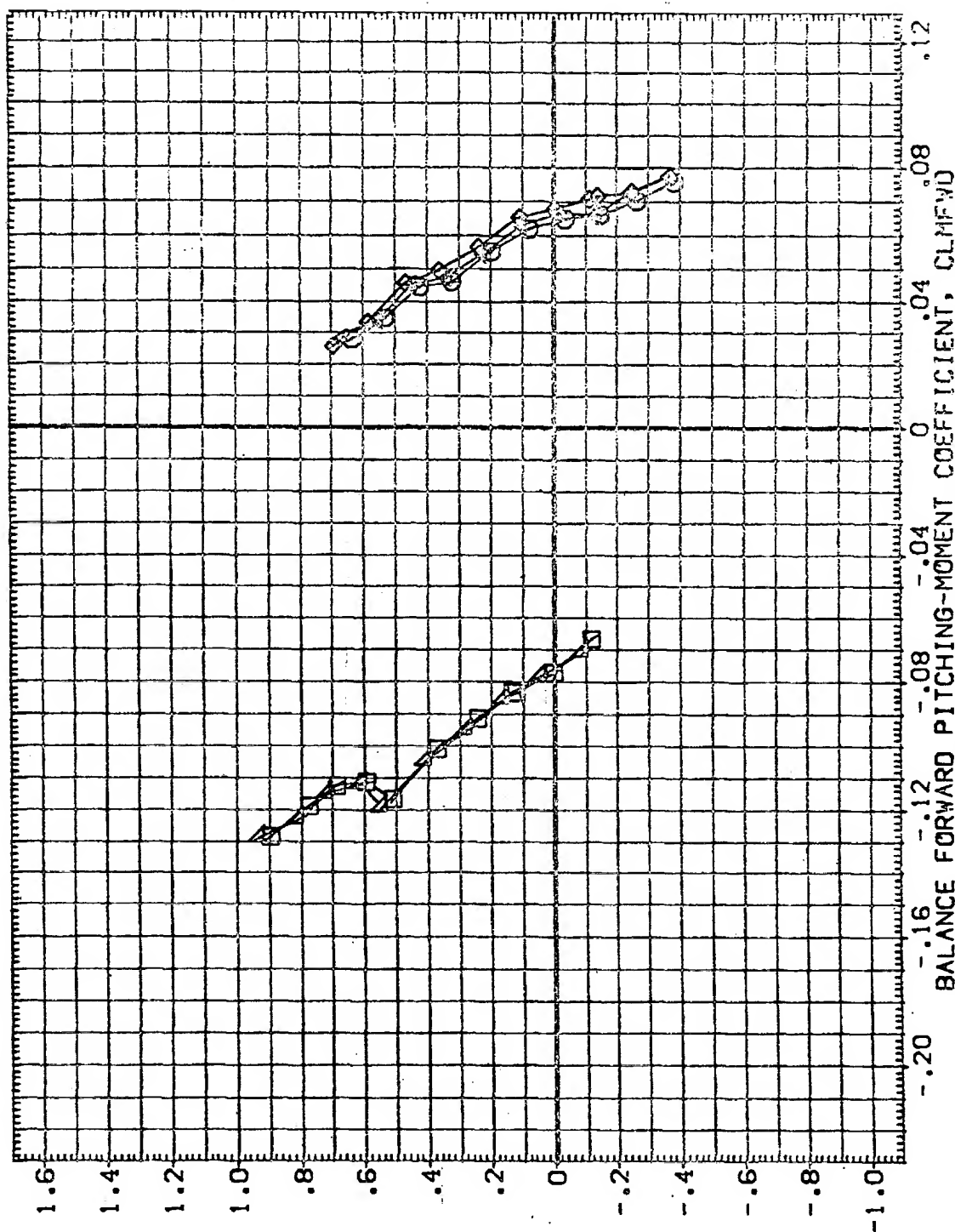


FIG. 4. ELEVON EFFECTS DURING TARE PITCH RUNS

$$\text{CD)MACH} = .80$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 DAS9 DA111A-(N24 RS V8)+STRUT+DUM STING

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DAS9 DA111A-(RS V8)+STRUT

(CER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .8053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

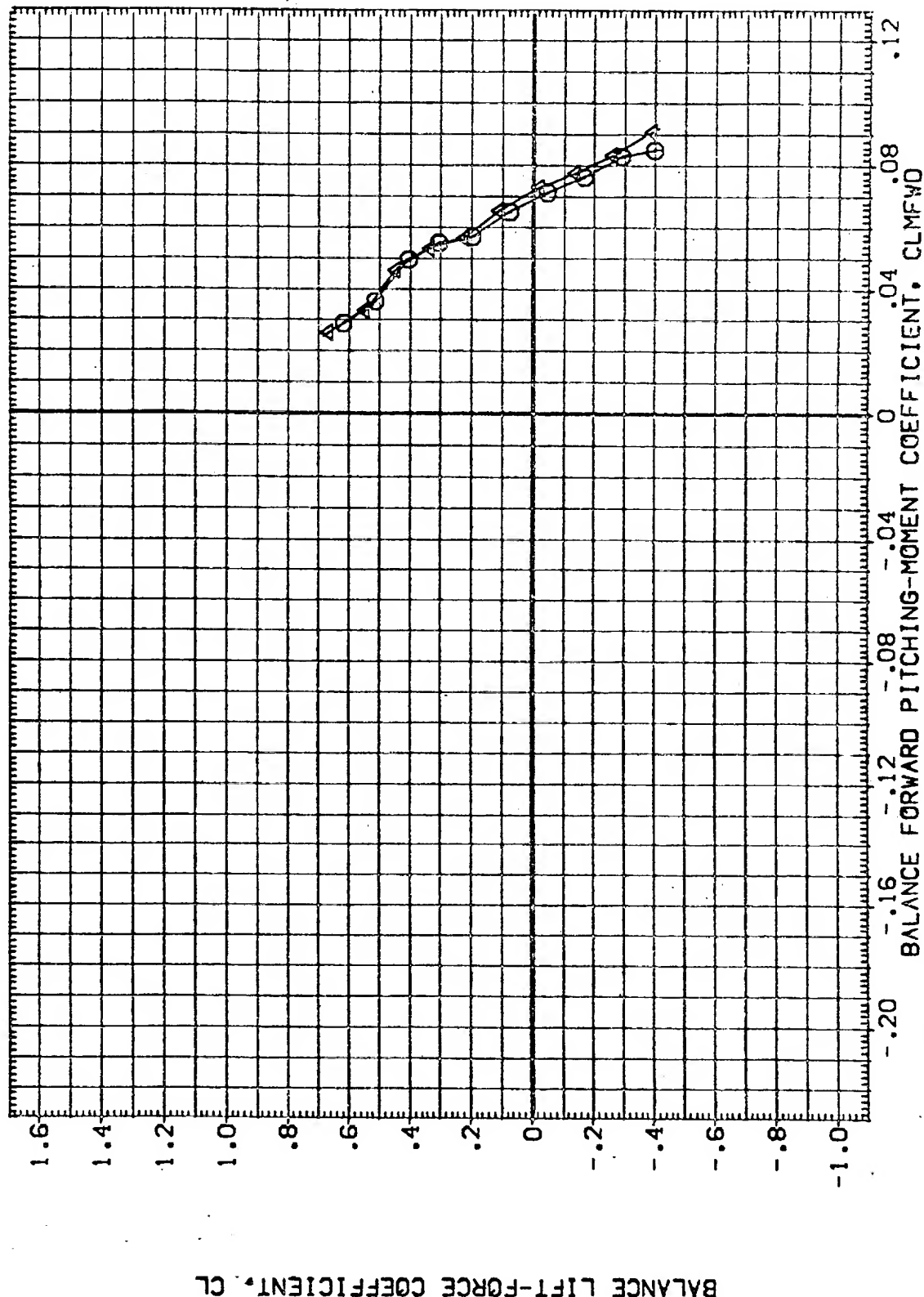


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	50% LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+QUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER003)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+QUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

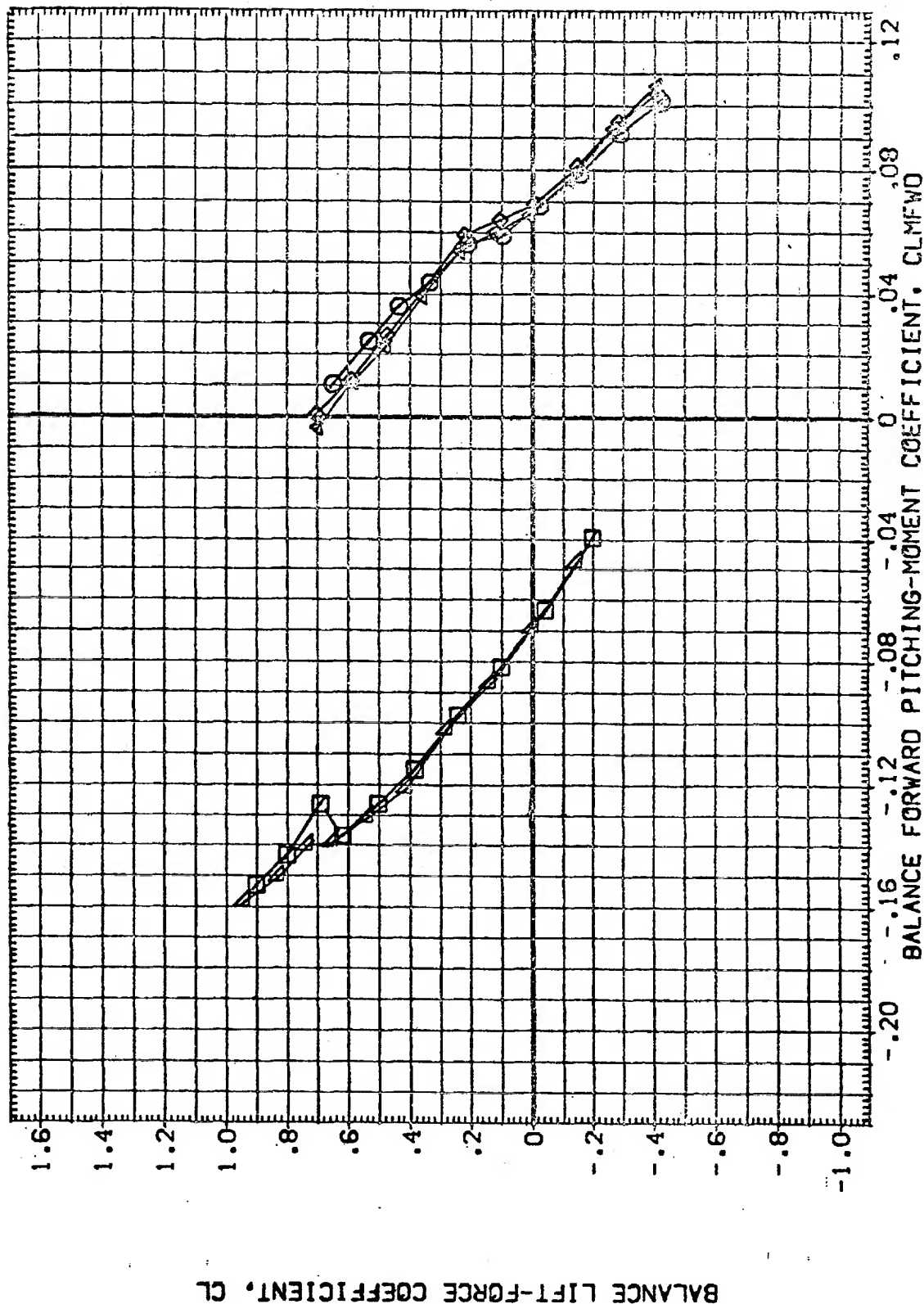


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 OAS9 OALIA-(N24 RS V01)+STRUT+DUM STING

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 OAS9 OALIA-(RS V01)+STRUT

(CER013) DATA NOT AVAILABLE

ETA

.000

.000

.000

.000

.000

.000

ELEVON

.000

15.000

.000

.000

.000

15.000

RSCLAP

-11.700

-11.700

-11.700

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

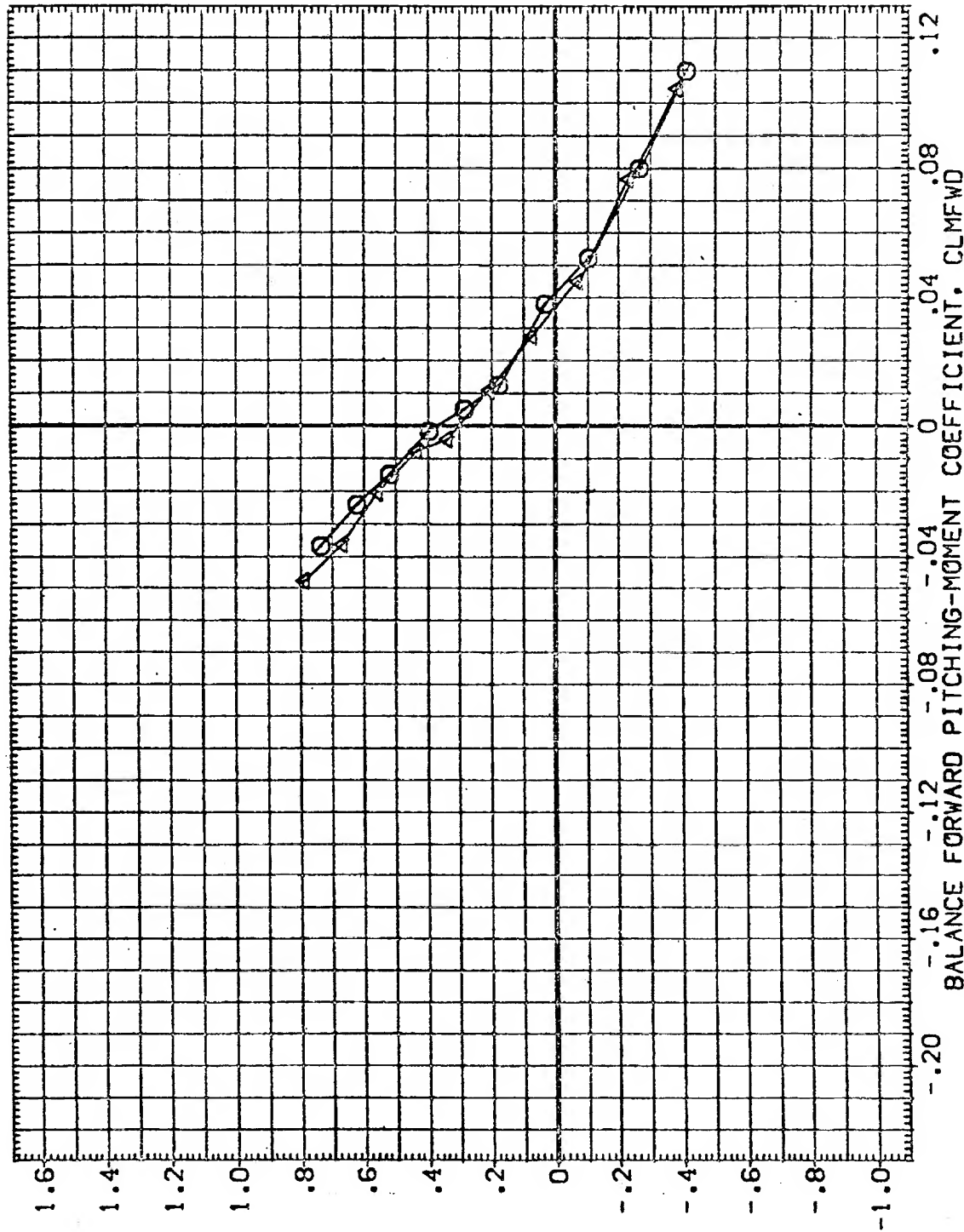


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON SODLAP

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 .000 -11.700

(CER003) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 15.000 -11.700

(CER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 -11.700

(CER013) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

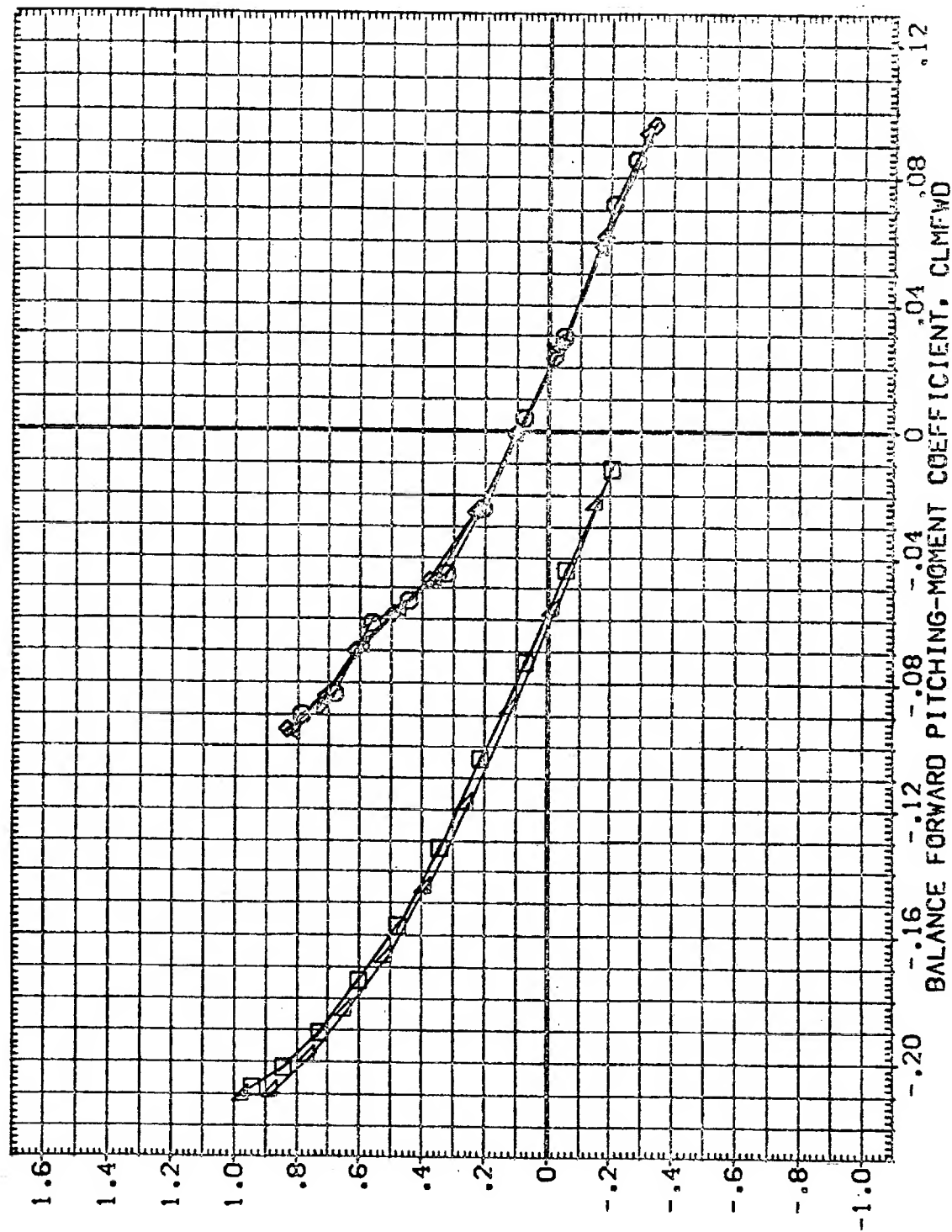


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

REFERENCE INFORMATION

SREF 6053 50.FT.
 LREF 5935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

BETA ELEVON EDOFLAP

.000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

CONFIGURATION DESCRIPTION

ARC 65-709 0A59 0A11A-(N21 RS V8)+STRUT+CLM STNG
 ARC 65-709 0A59 0A11A-(N21 RS V8)+STRUT+CLM STNG
 ARC 65-709 0A59 0A11A-(N21 RS V8)+STRUT
 ARC 65-709 0A59 0A11A-(RS V8)+STRUT

DATA SET SYMBOL

(CER001)
 (CER003)
 (CER009)
 (CER012)
 (CER013)

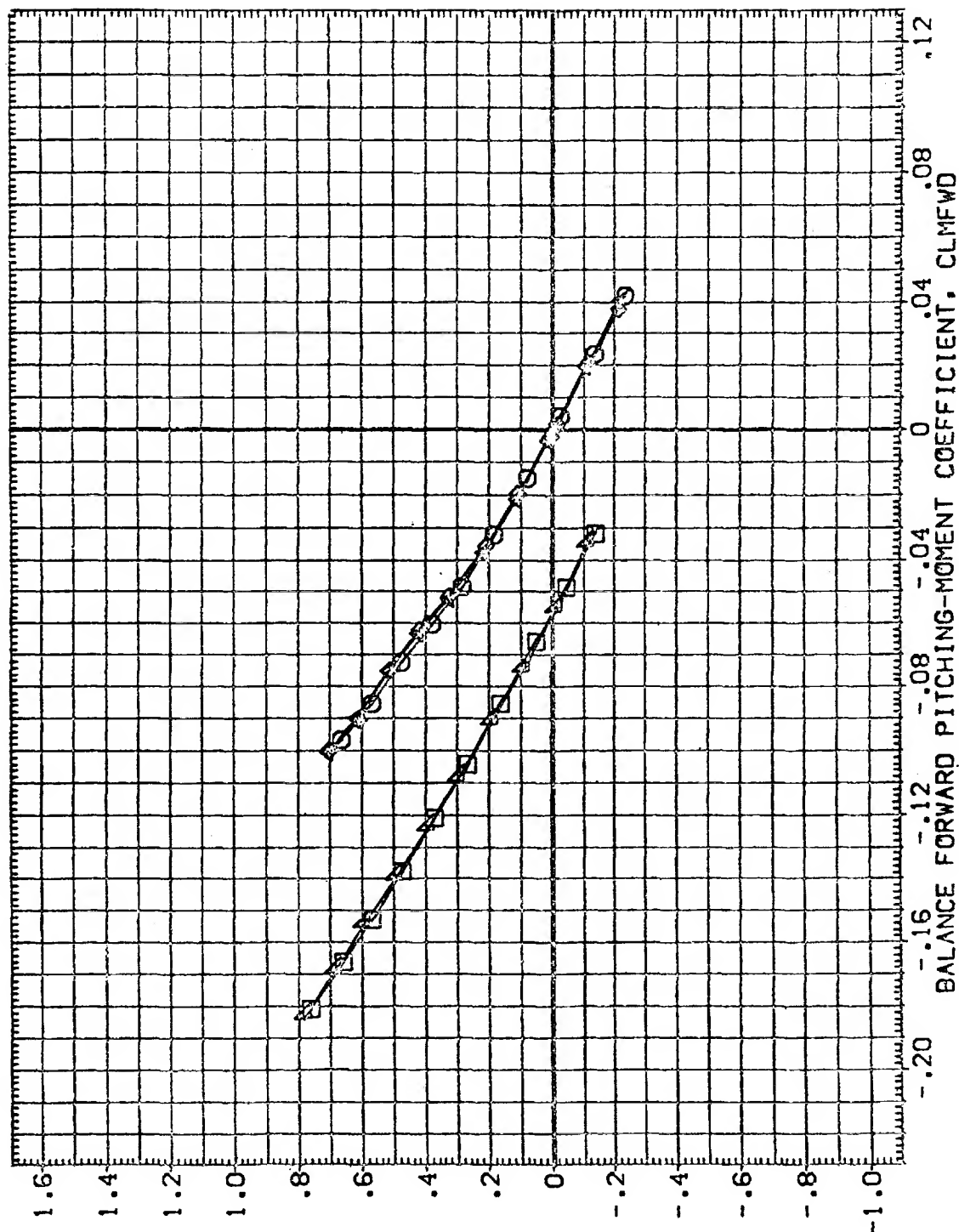


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON ROFLAP REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50. FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

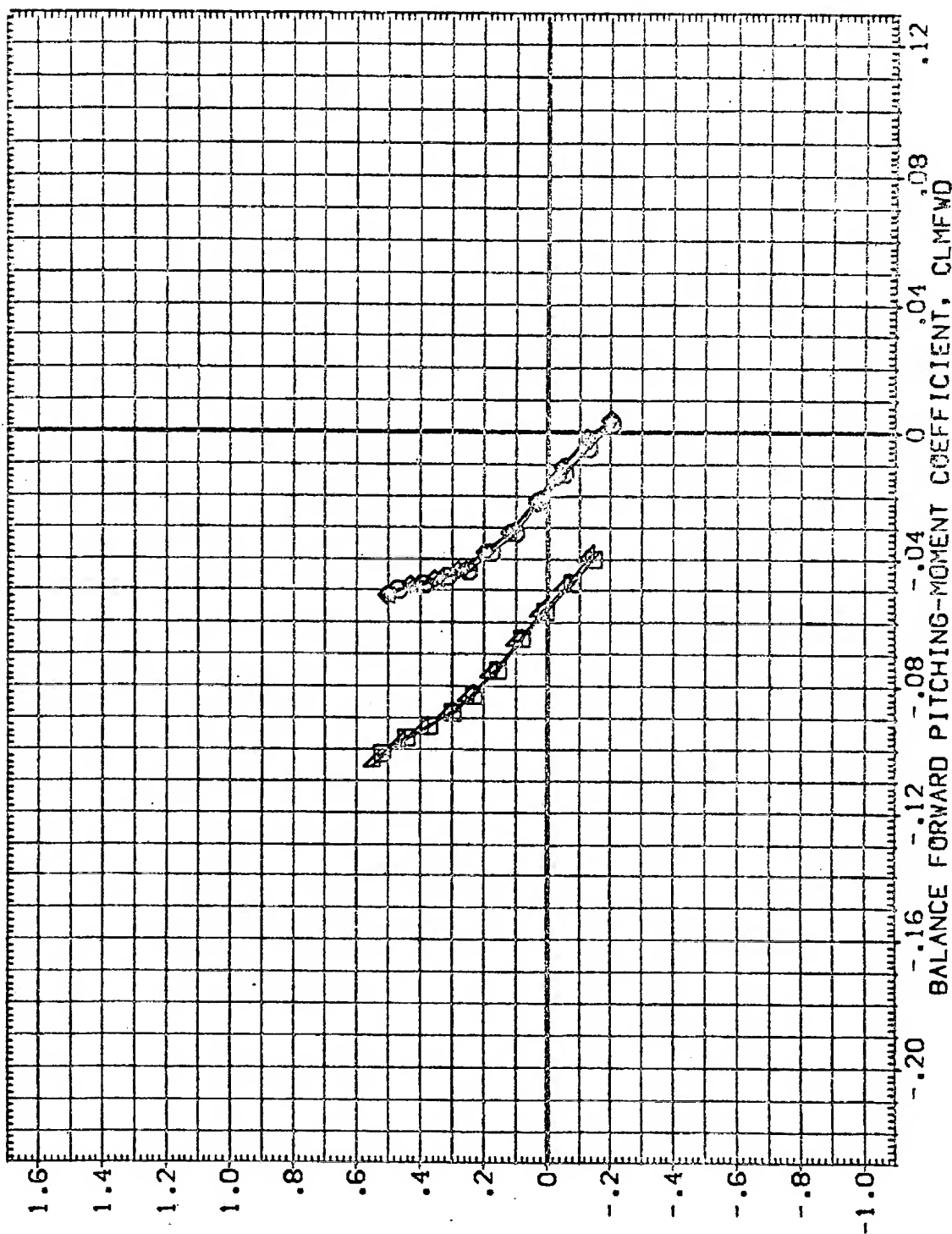


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

REFERENCE INFORMATION

SREF	6053	50 FT.
LREF	5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	EDFLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

DATA SET SYMBOL

CONFIGURATION DESCRIPTION
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+OUM SING
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+OUM SING
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT
ARC 66-709 0A59 0A11A-(RS V81)+STRUT
ARC 66-709 0A59 0A11A-(RS V81)+STRUT

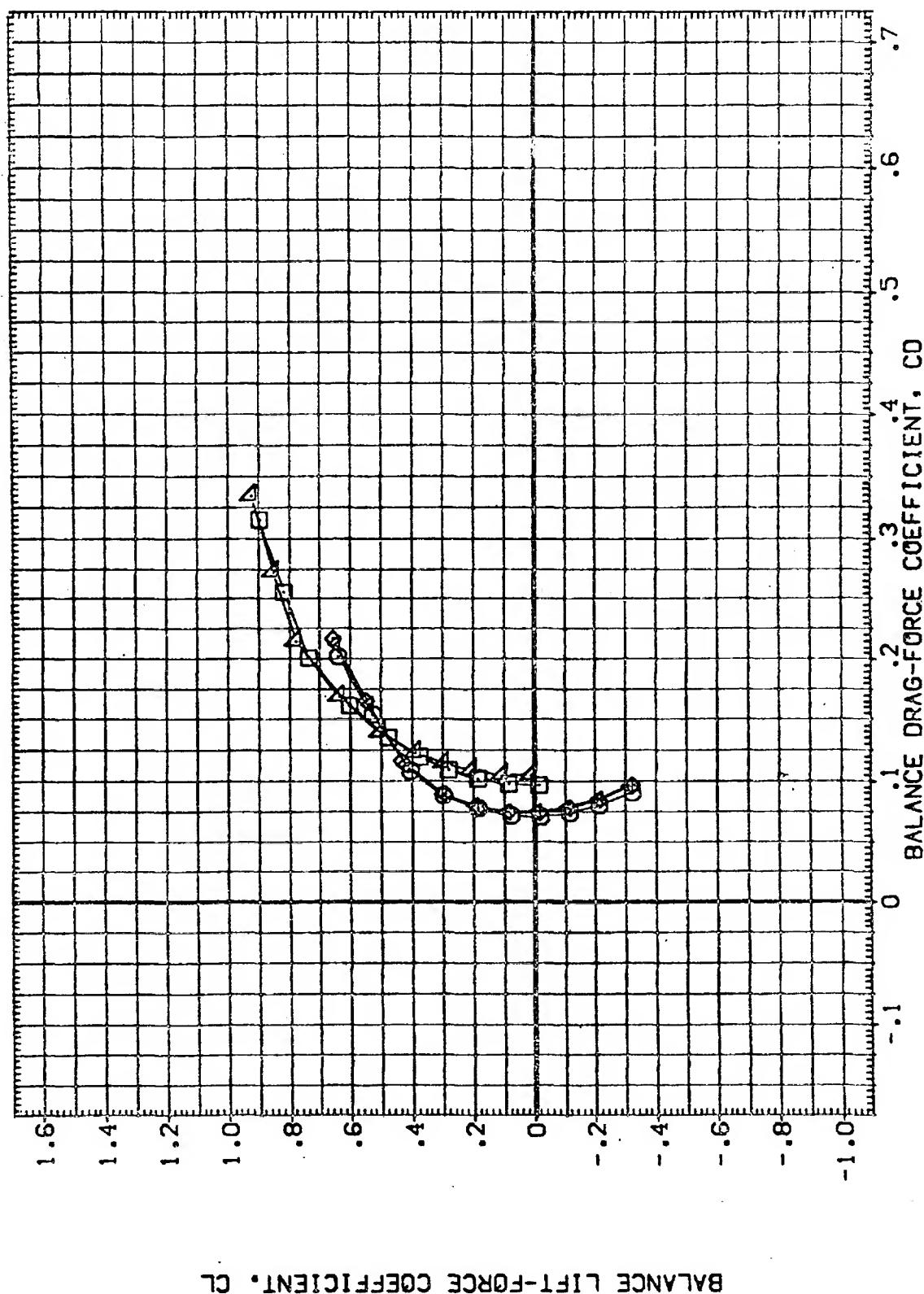


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	90° LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+QUM STNG	.000	.000	-11.700	SREF .5053 50. FT.
(CER003)	ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+QUM STNG	.000	15.000	-11.700	LREF .5035 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	GREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

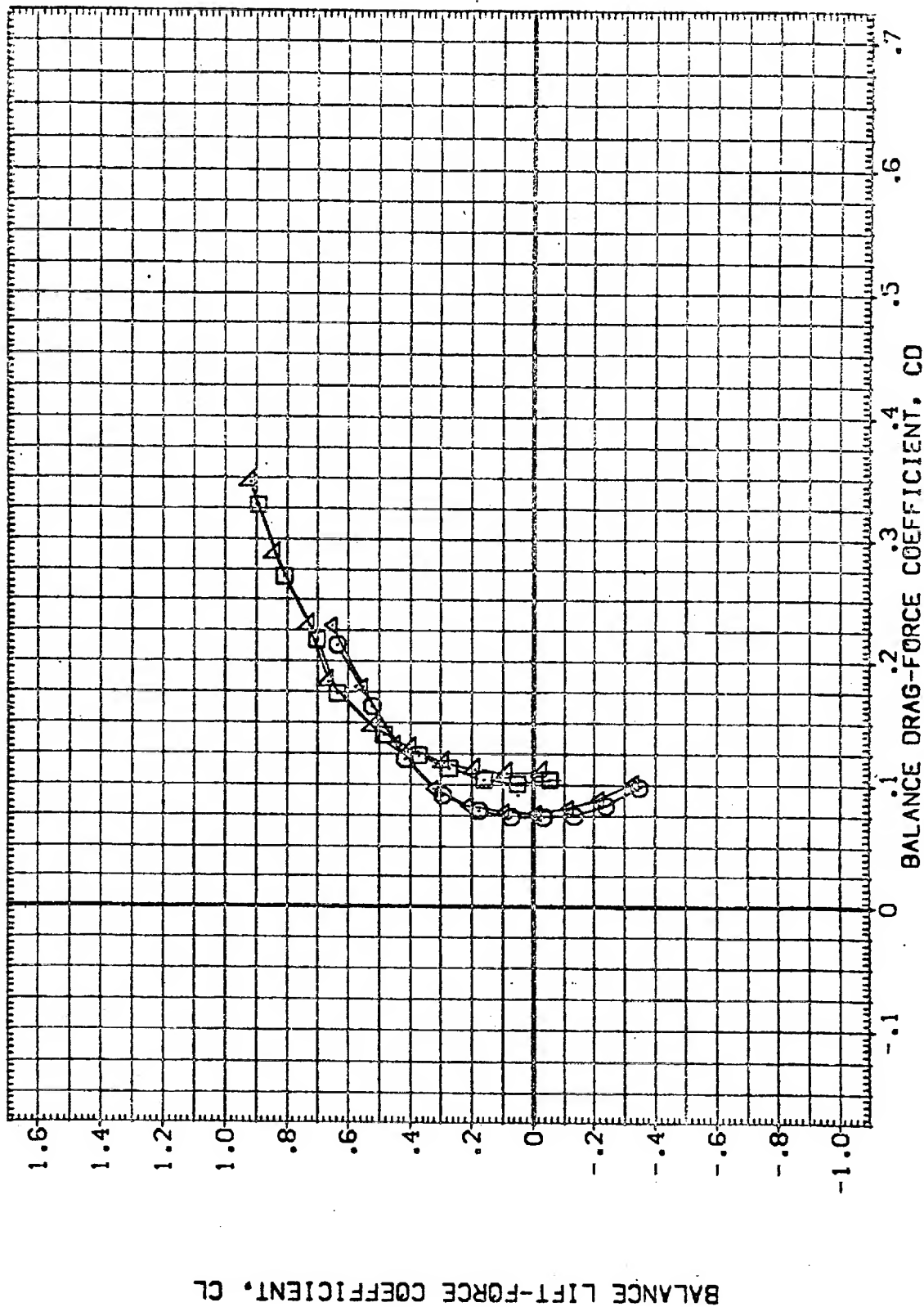


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-703 DAS9 DALLA-(N21 R5 V8)+STRUT+CLM STNG

(CER003) DATA NOT AVAILABLE

(CER009) DATA NOT AVAILABLE

(CER012) ARC 66-709 DAS9 DALLA-(R5 V8)+STRUT

(CER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

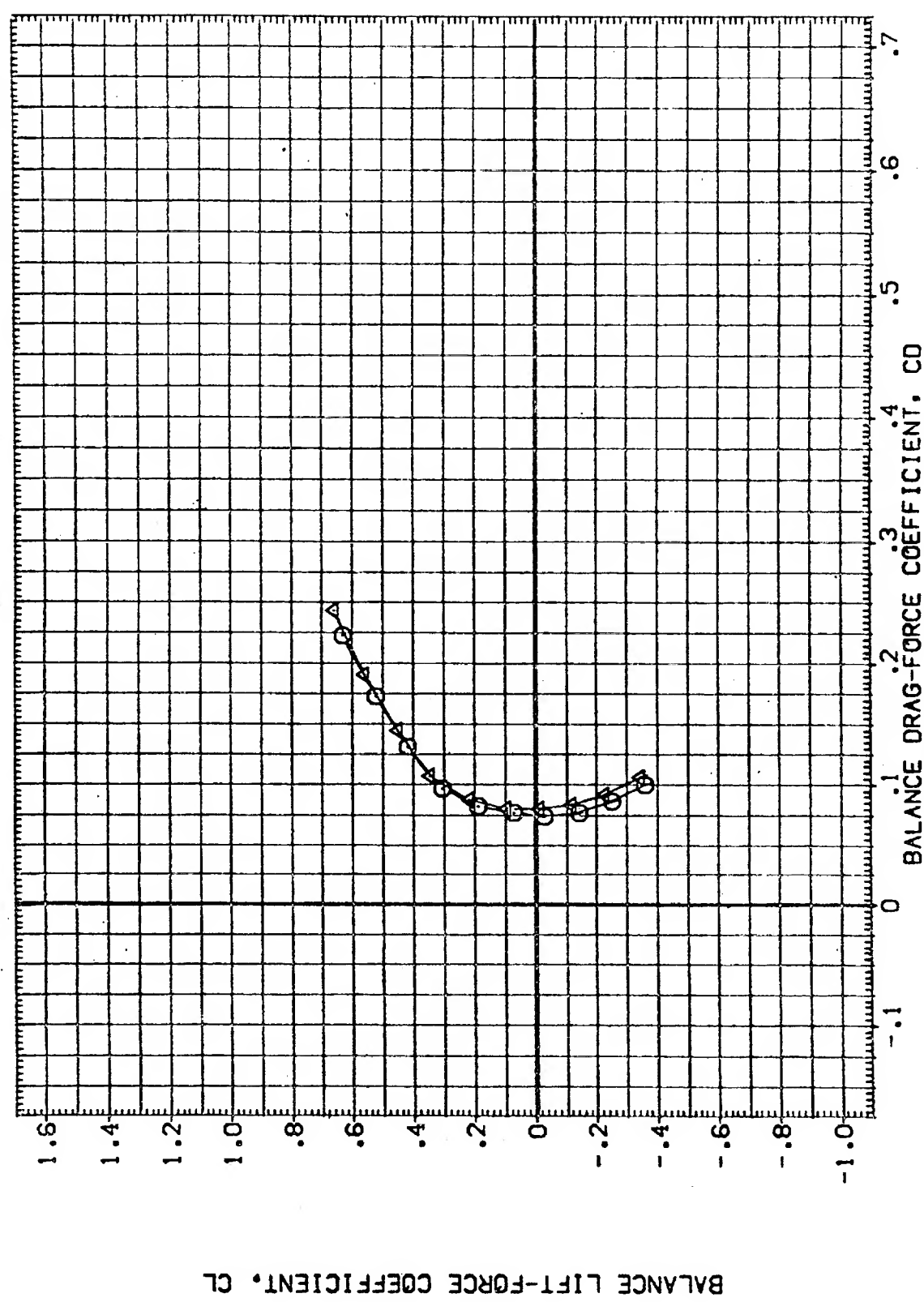


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
{CER003}	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
{CER008}	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6253 IN.
{CER013}	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

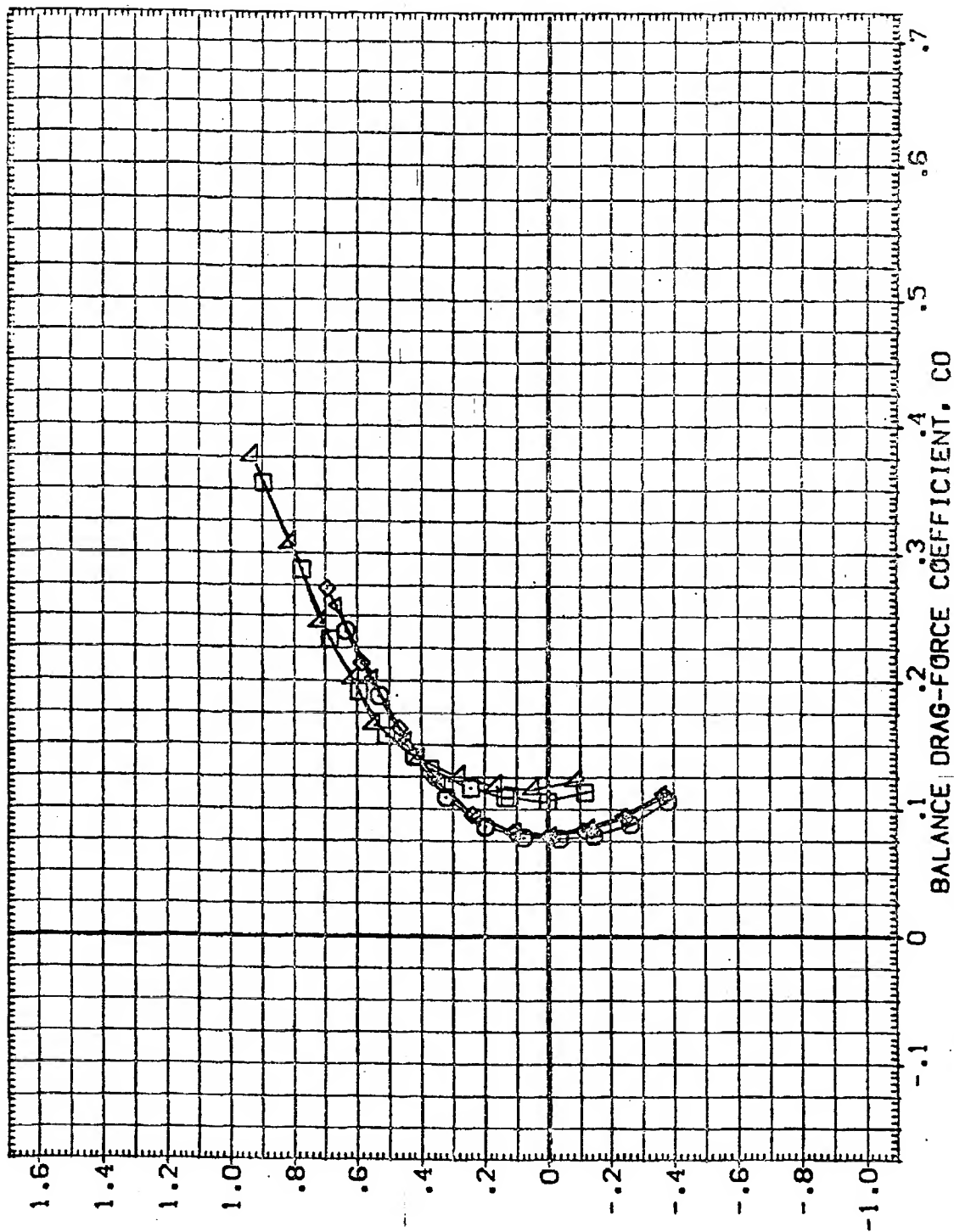


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	WGLAP	REFERENCE INFORMATION
(CER001)	ARC 66-703 DAS9 DALLA-(N21 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-703 DAS9 DALLA-(RS V8)+STRUT	.000	.000	-11.700	XMPP 12.6255 IN.
(CER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

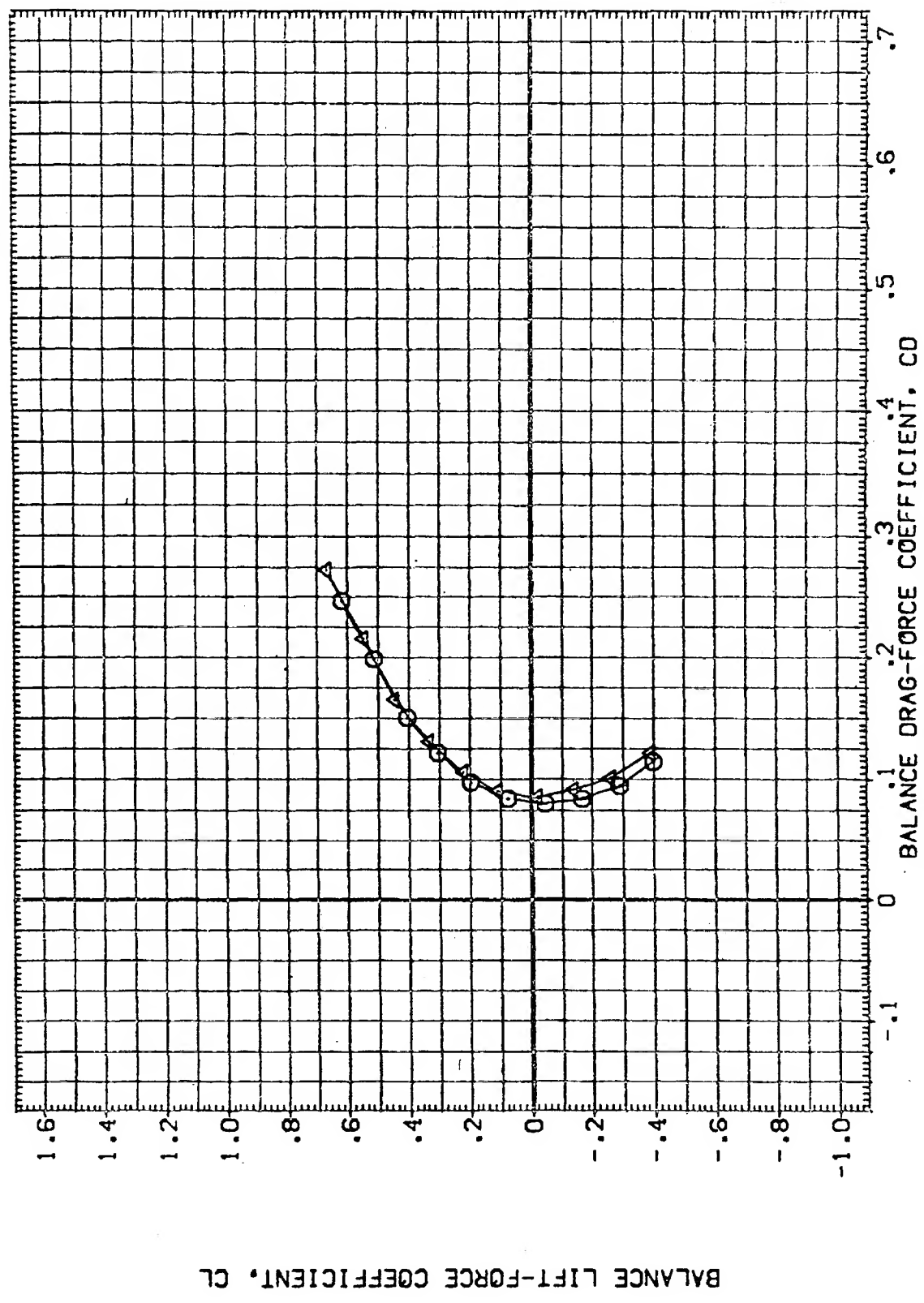


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[CER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

[CER003] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG

[CER009] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT

[CER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

[CER013] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .0053 50.FT.

LREF .5335 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

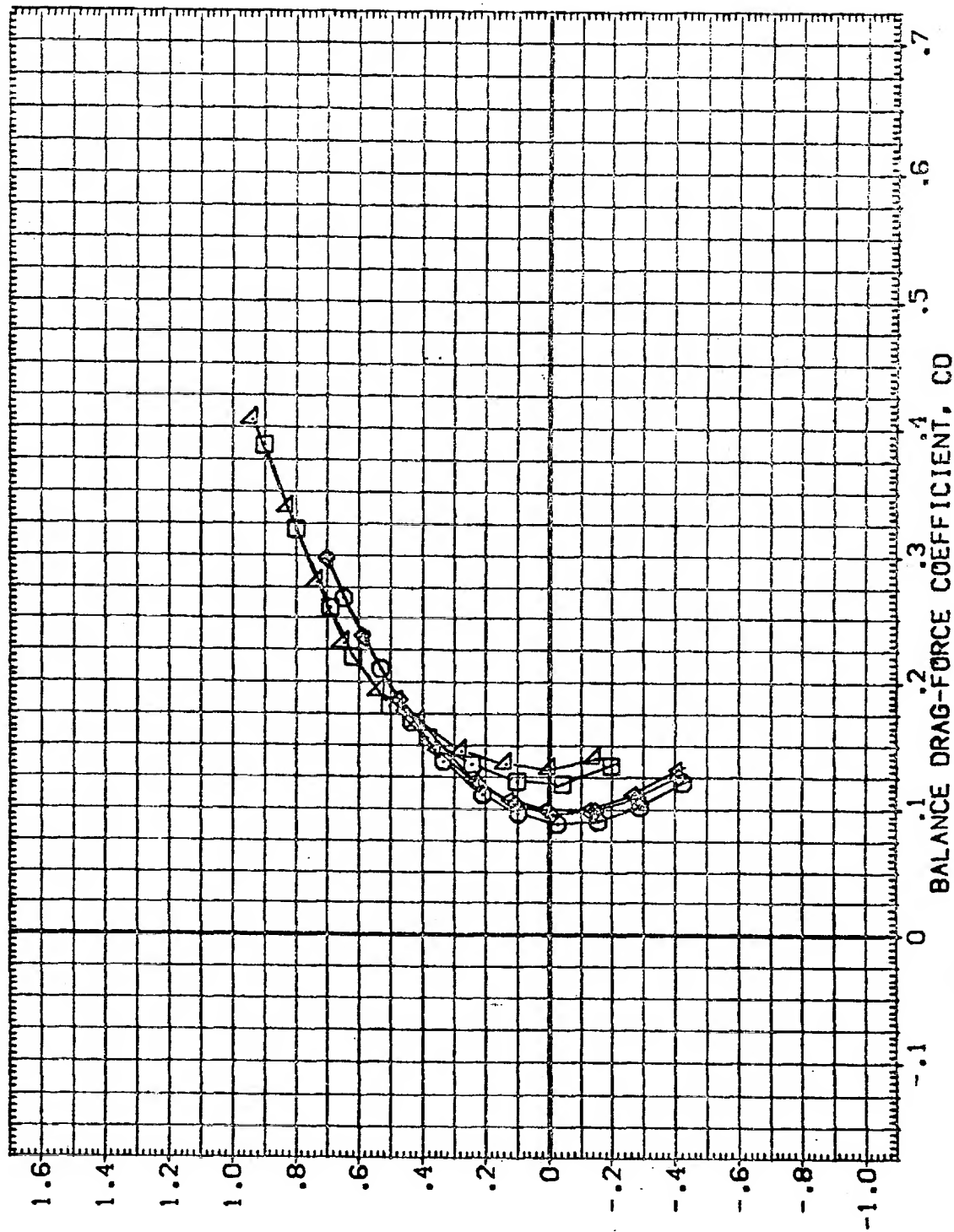


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON SOFLAP

(CER001) ARC 56-709 QAS9 QAL11A-(N21 R5 V8)+STRUT+DUM STNG .000 .000 -11.700

(CER003) DATA NOT AVAILABLE .000 15.000 -11.700

(CER009) DATA NOT AVAILABLE .000 .000 -11.700

(CER012) ARC 66-709 QAS9 QAL11A-(R5 V8)+STRUT .000 .000 -11.700

(CER013) DATA NOT AVAILABLE .000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

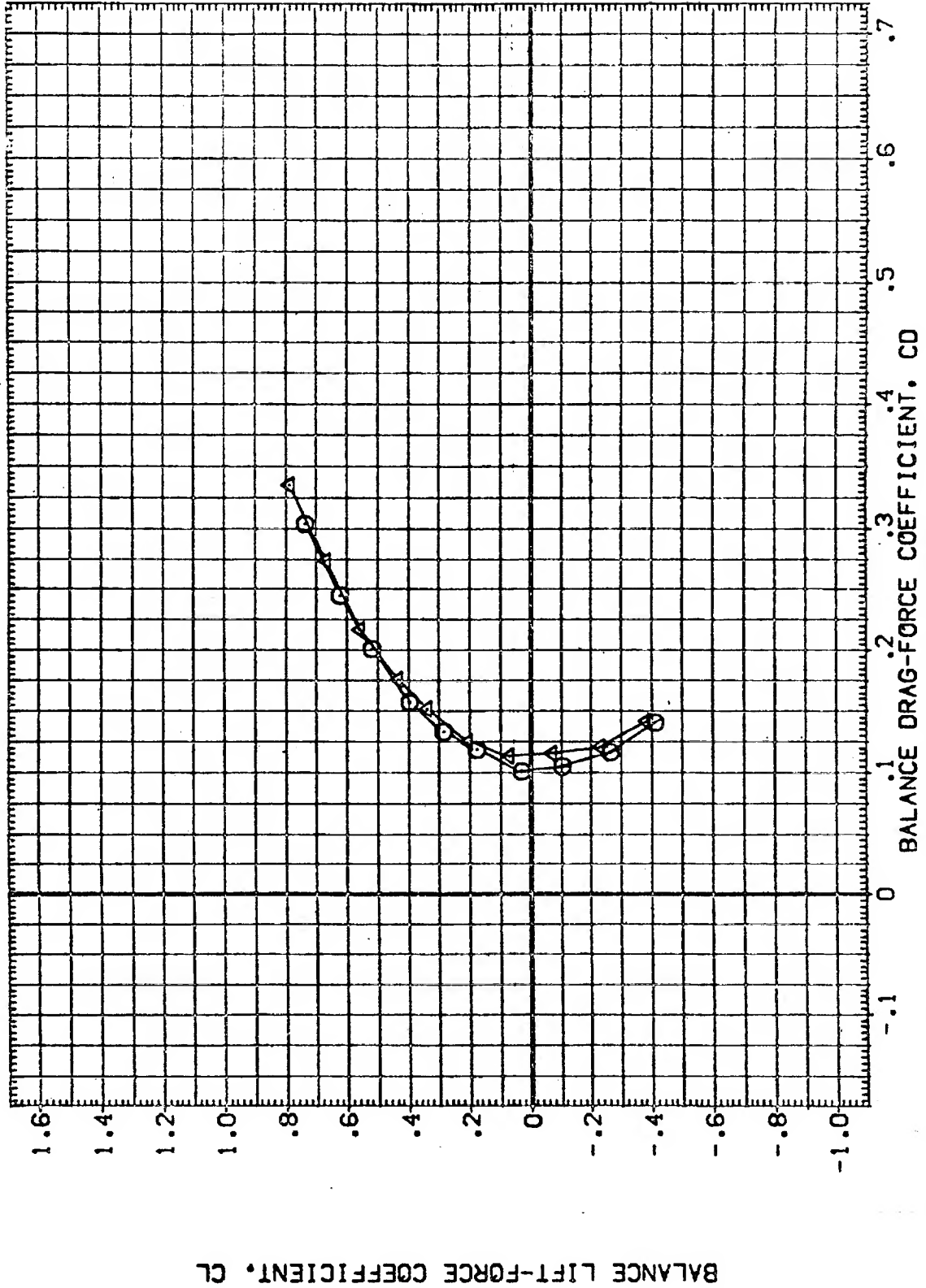


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	OVERLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+OJM STING	.000	.000	-11.700	SREF .5033 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+OJM STING	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRF 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP -.3750 IN.
					ZMRP .0150
					SCALE

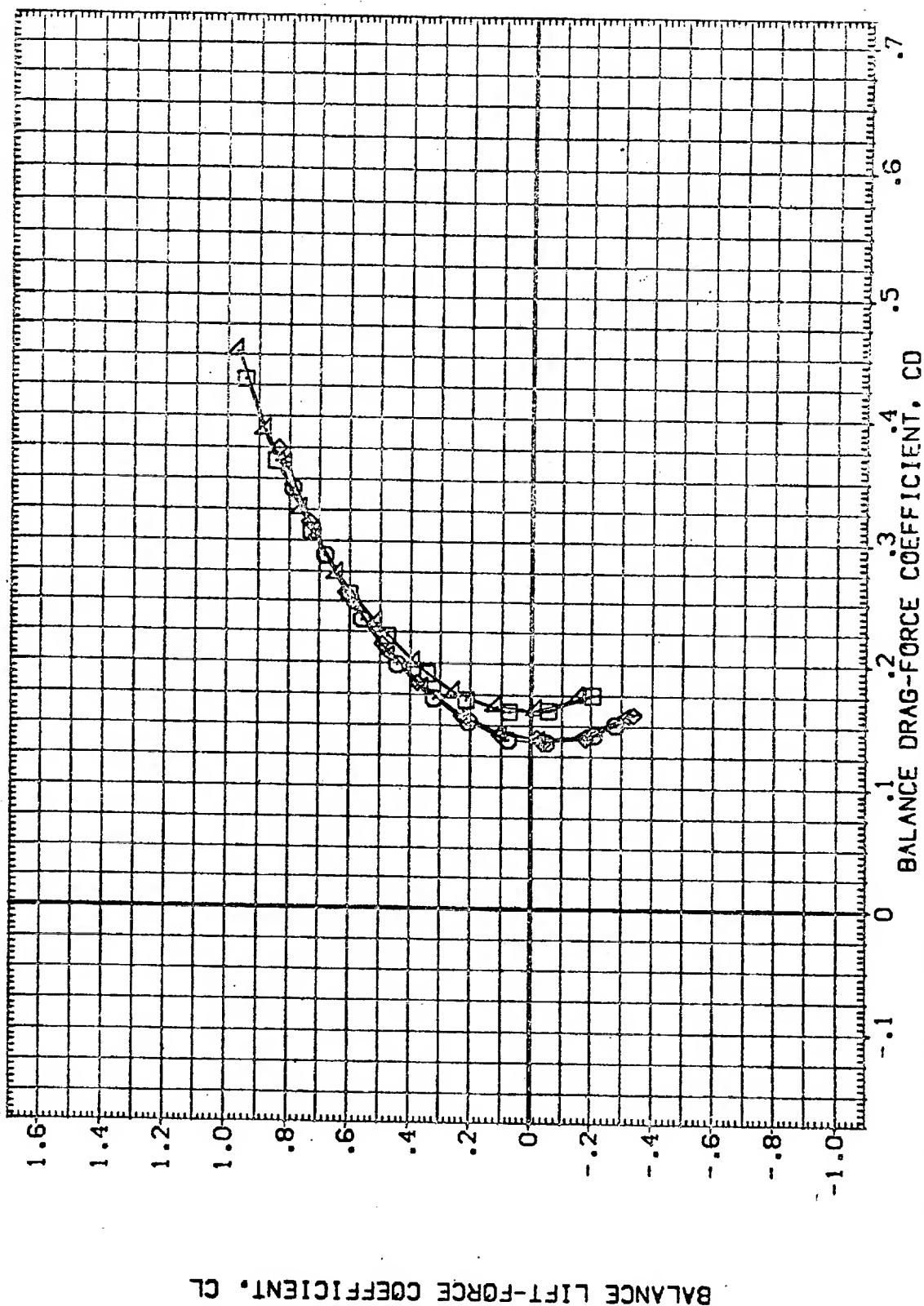


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INSPIRATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	SREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

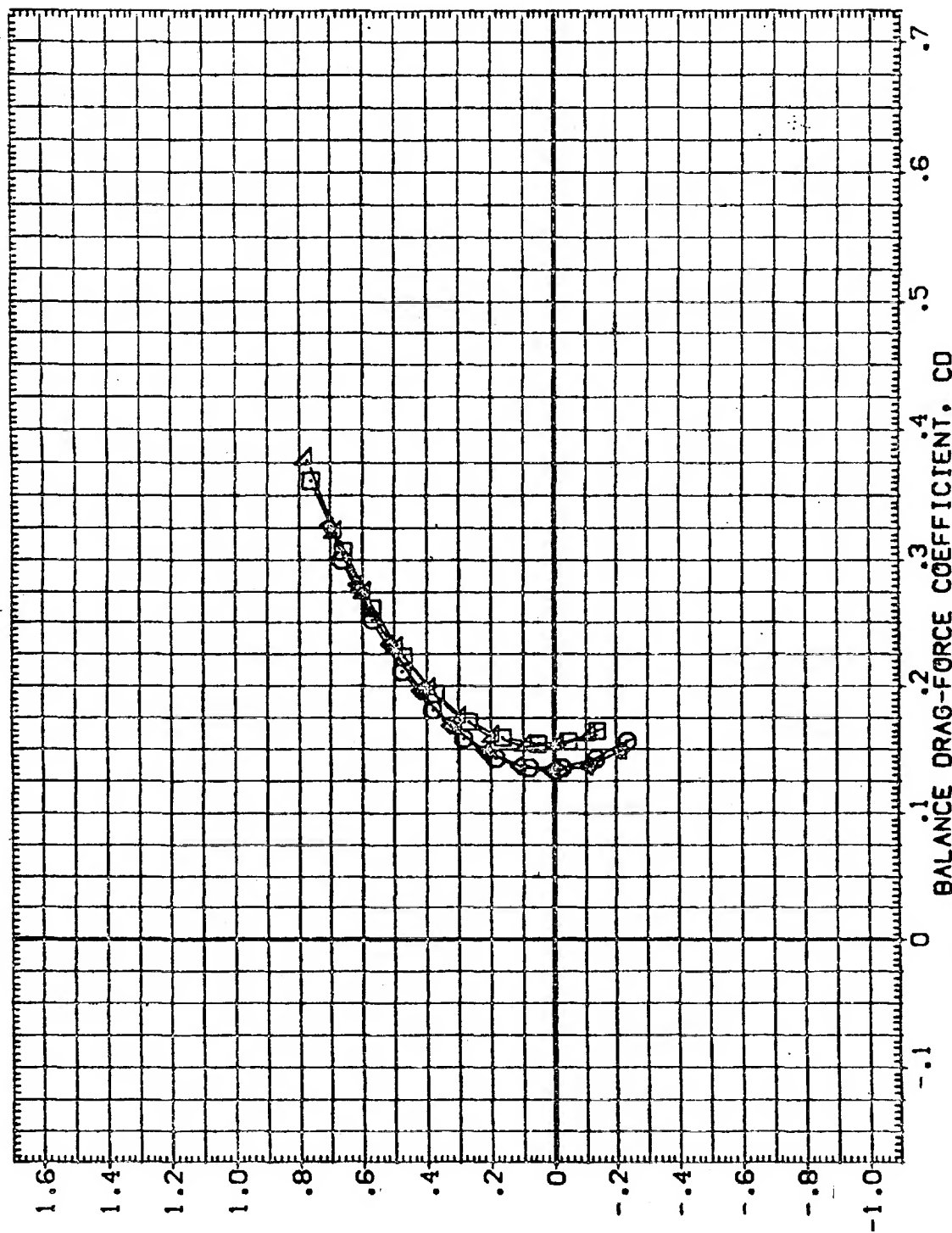


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER003)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(CER009)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER013)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

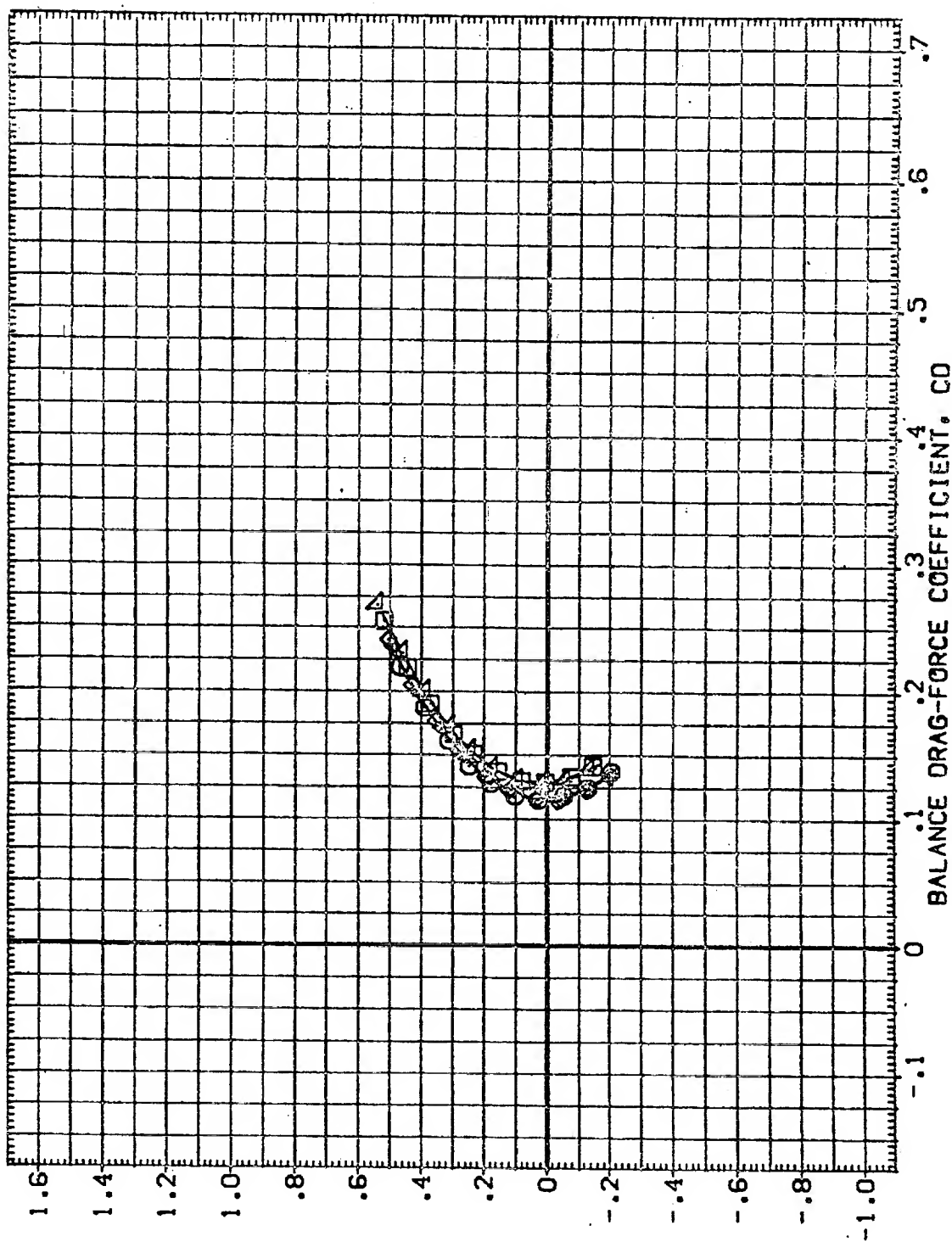


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

REFERENCE INFORMATION

SREF	.6053	50 FT.
UREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	SOCLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709	QAS9	QAI1A-(N24	RS	V8)	+STRUT+DUM	STNG
ARC 66-709	QAS9	QAI1A-(N24	RS	V8)	+STRUT+DUM	STNG
ARC 66-709	QAS9	QAI1A-(N24	RS	V8)	+STRUT	
ARC 66-709	QAS9	QAI1A-(RS	V8)	+STRUT		
ARC 66-709	QAS9	QAI1A-(RS	V8)	+STRUT		

DATA SET SYMBOL

(GER001)	
(GER003)	
(GER009)	
(GER012)	
(GER013)	

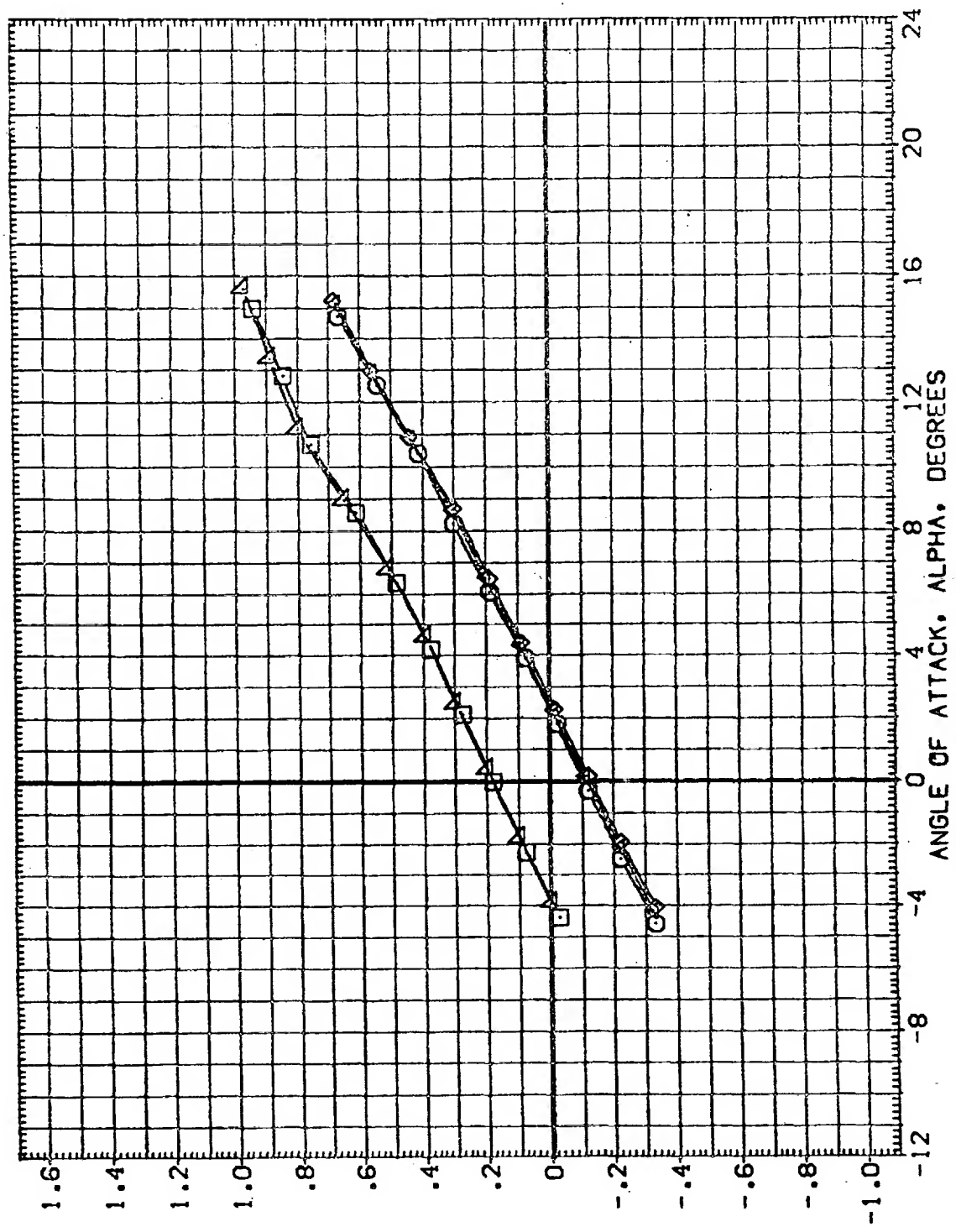


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{GER001}
{GER003}
{GER009}
{GER012}
{GER013}

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
DATA NOT AVAILABLE
ARC 66-709 0A59 0A11A-(RS V8)+STRUT
ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON 80FLAP
.000 .000 -11.700
.000 15.000 -11.700
.000 .000 -11.700
.000 .000 -11.700
.000 15.000 -11.700

REFERENCE INFORMATION
\$REF 6053 50.FT.
LREF 5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

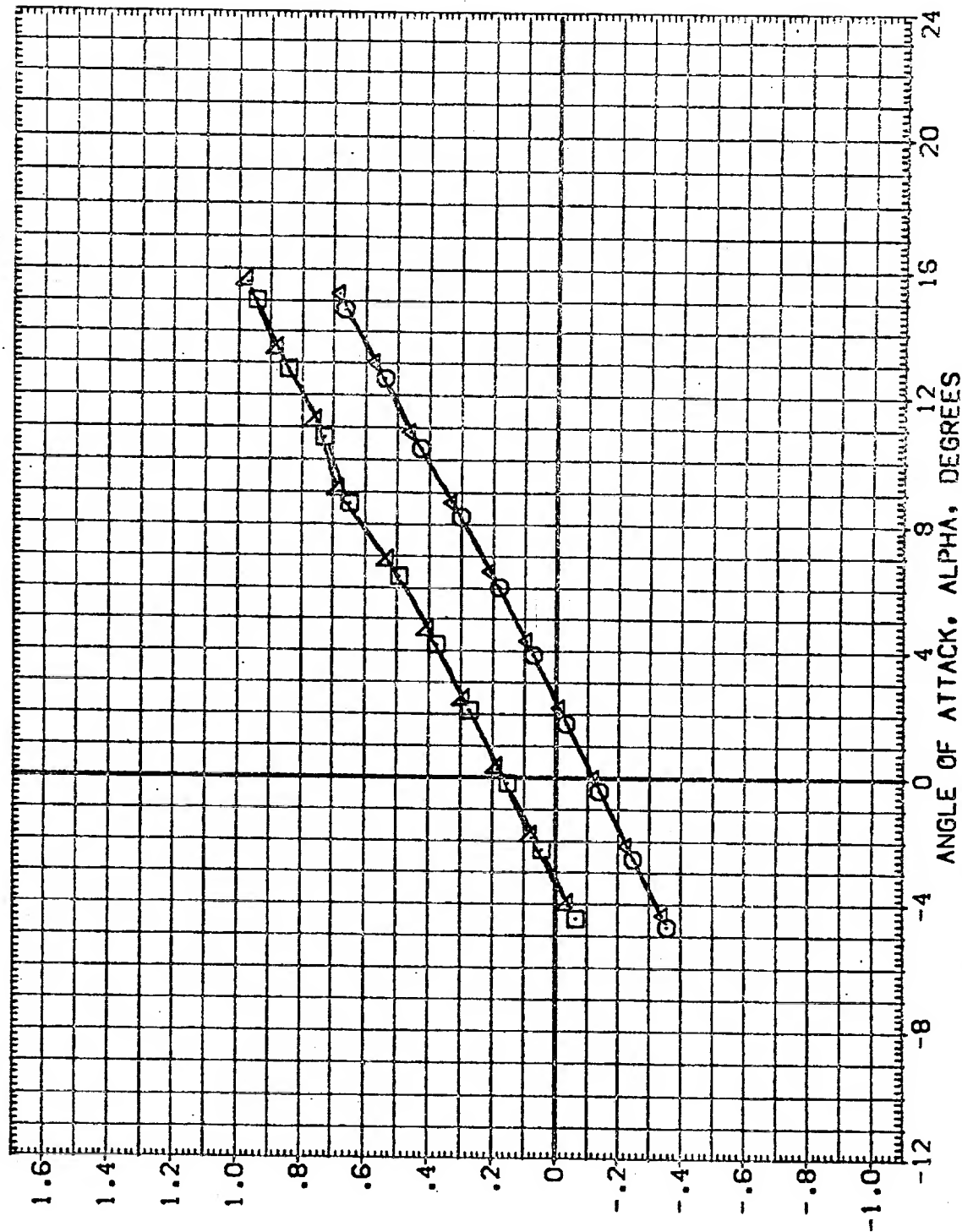


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{06R001} ARC 66-703 0A59 0A11A-(N24 R5 V8)*STRUT+0JM STNG

{06R003} DATA NOT AVAILABLE

{06R009} DATA NOT AVAILABLE

{06R012} ARC 66-708 0A59 0A11A-(R5 V8)*STRUT

{06R013} DATA NOT AVAILABLE

BETA

ELEVON

GOLFAP

.000

.000

-11.700

15.000

.000

-11.700

.000

-11.700

15.000

.000

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

SCALE

.6053

.5935

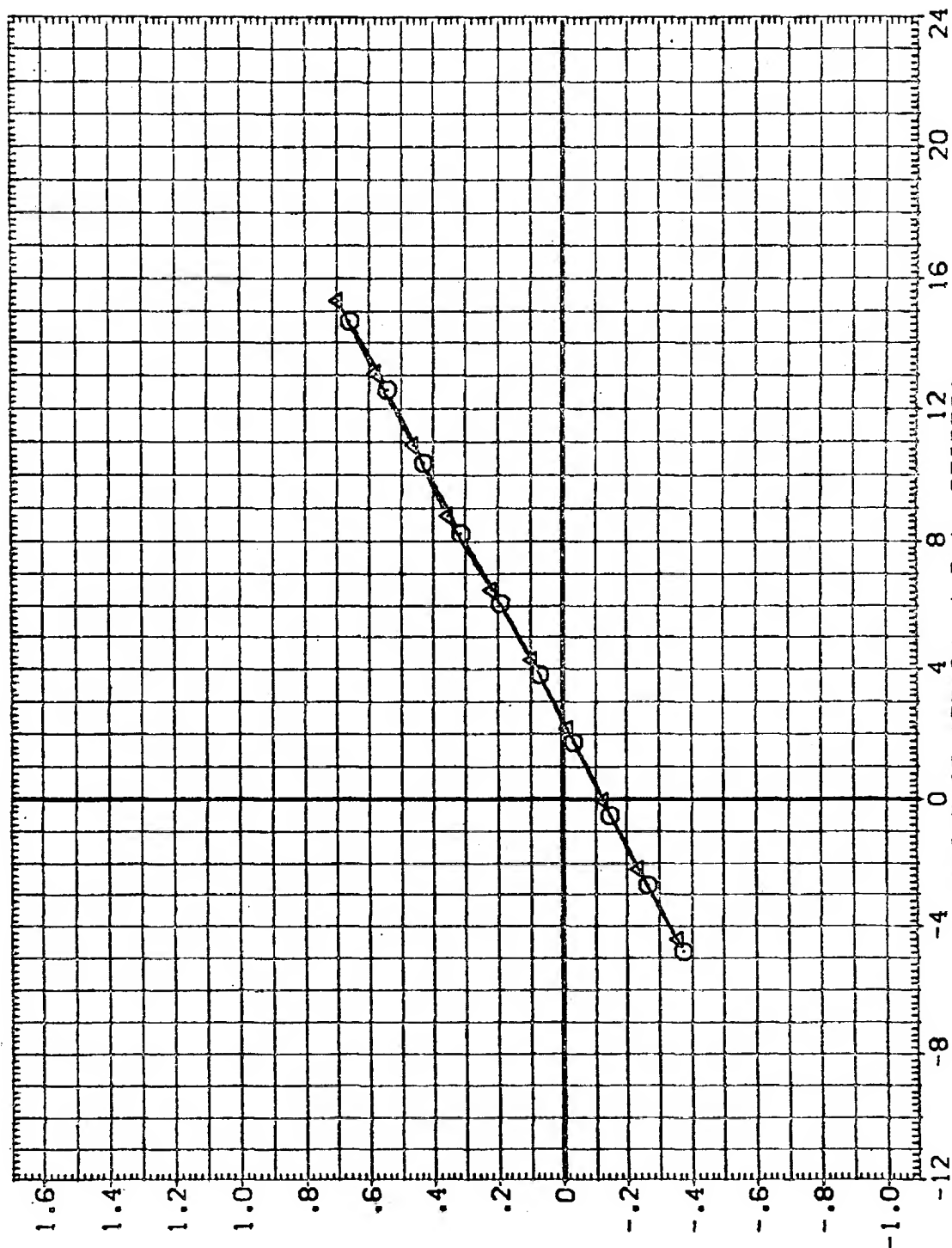
1.1710

12.6255

.0000

-.3750

.0150



TOTAL NORMAL-FORCE COEFFICIENT, Cn

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{GER001} ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING

{GER003} ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING

{GER009} ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT

{GER012} ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

{GER013} ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA ELEVON ECLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

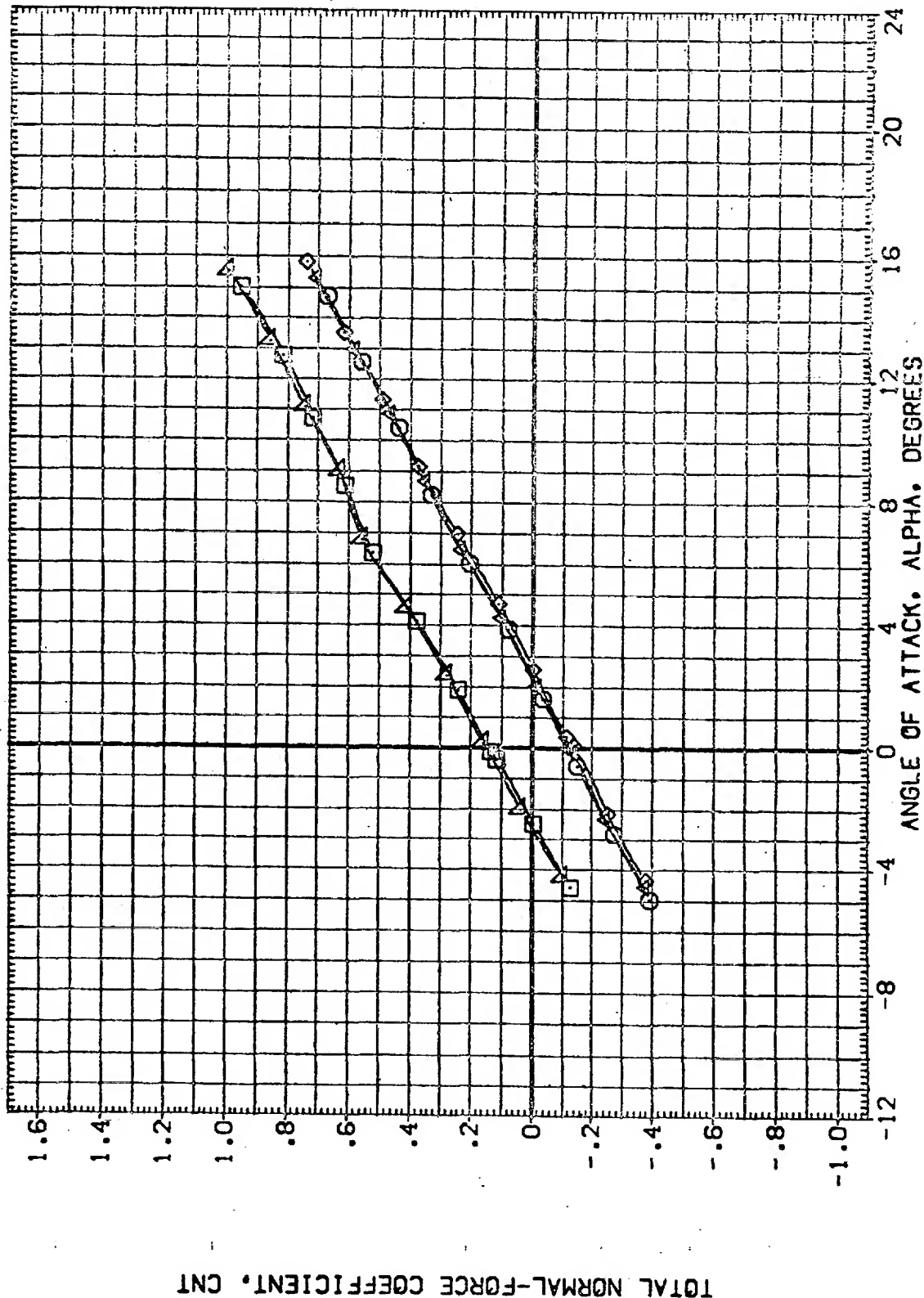
BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



REFERENCE INFORMATION

SREF	.8053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.8255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON

BOFLAP	-11.700
ELEVON	.000
SETA	.000
BOFLAP	-11.700
ELEVON	.000
SETA	.000
BOFLAP	-11.700
ELEVON	.000
SETA	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+CUH STNG
(GER003)	DATA NOT AVAILABLE
(GER009)	DATA NOT AVAILABLE
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT
(GER013)	DATA NOT AVAILABLE

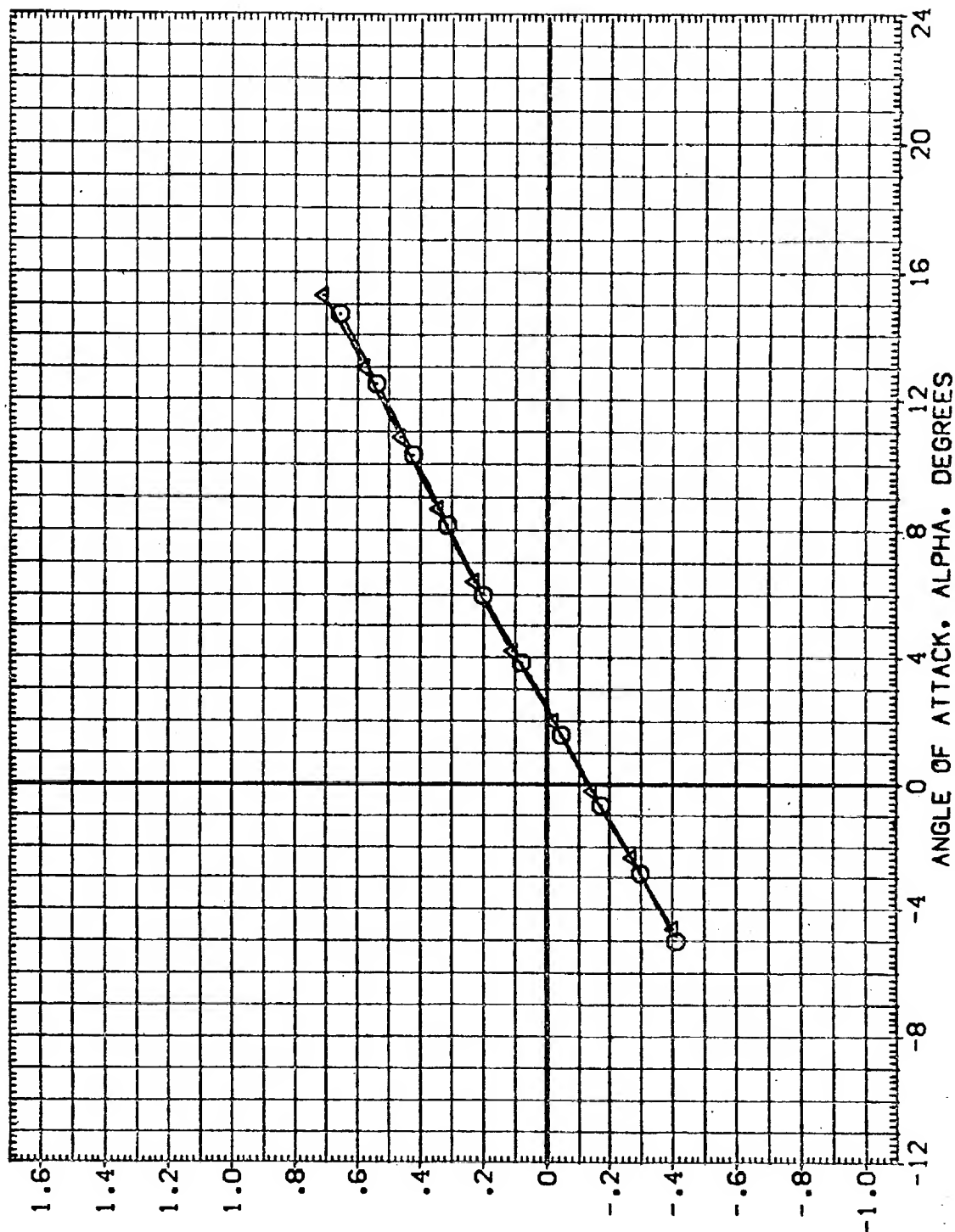


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT	.000	.000	-11.700	EREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

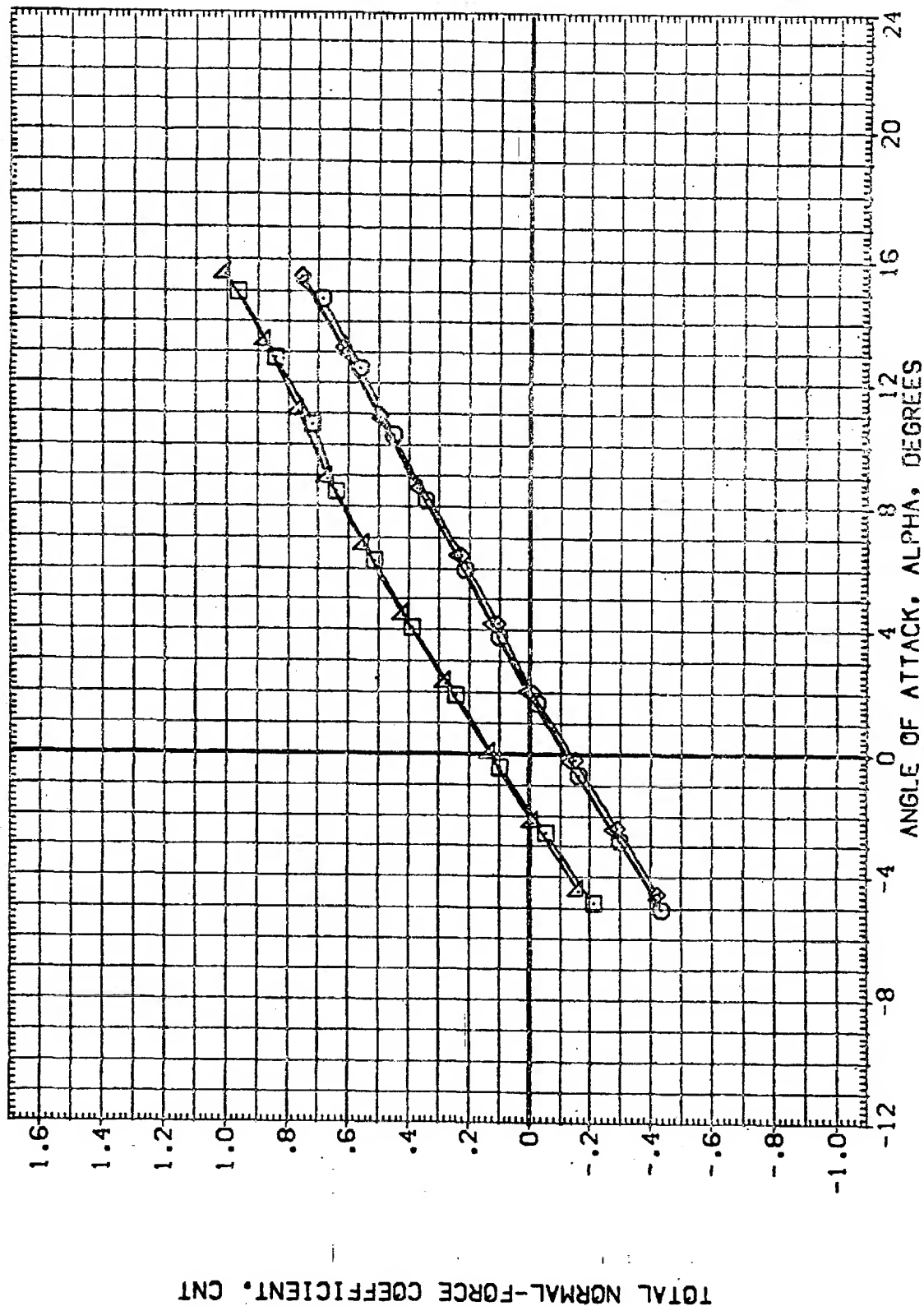


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

REFERENCE INFORMATION

SREF	.6053	53. FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	80FLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

DATA SET SYMBOL

CONFIGURATION DESCRIPTION
ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+OLM STING
DATA NOT AVAILABLE
ARC 66-709 QAS9 0A11A-(RS V8)*STRUT
DATA NOT AVAILABLE

DATA SET SYMBOL

CONFIGURATION DESCRIPTION
ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+OLM STING
DATA NOT AVAILABLE
ARC 66-709 QAS9 0A11A-(RS V8)*STRUT
DATA NOT AVAILABLE

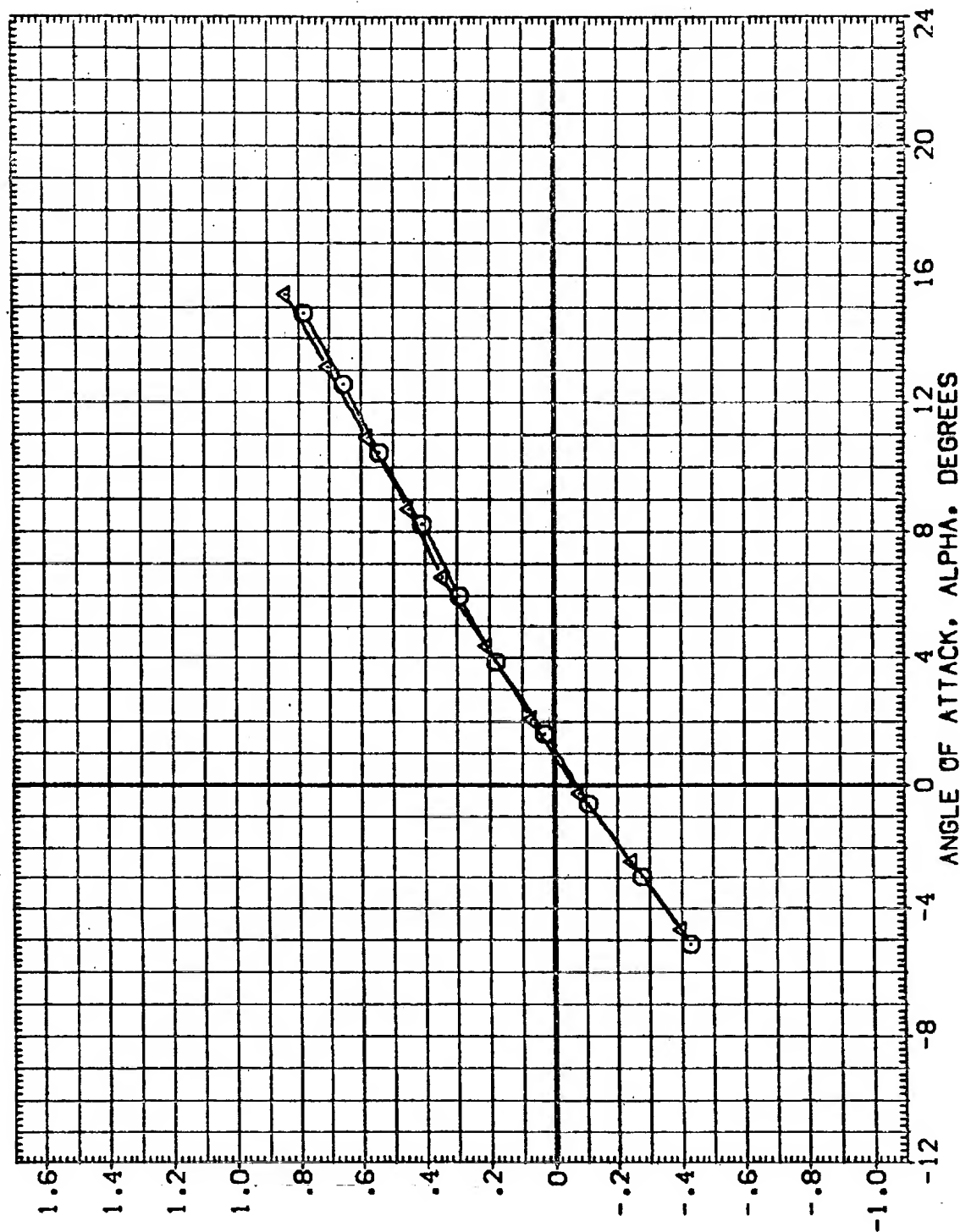


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SCFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 GA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SAREF 6053 50.FT.
(GER003)	ARC 66-709 QAS9 GA11A-(N24 R5 V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF 5935 FT.
(GER009)	ARC 66-709 QAS9 GA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 GA11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QAS9 GA11A-(R5 V8)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

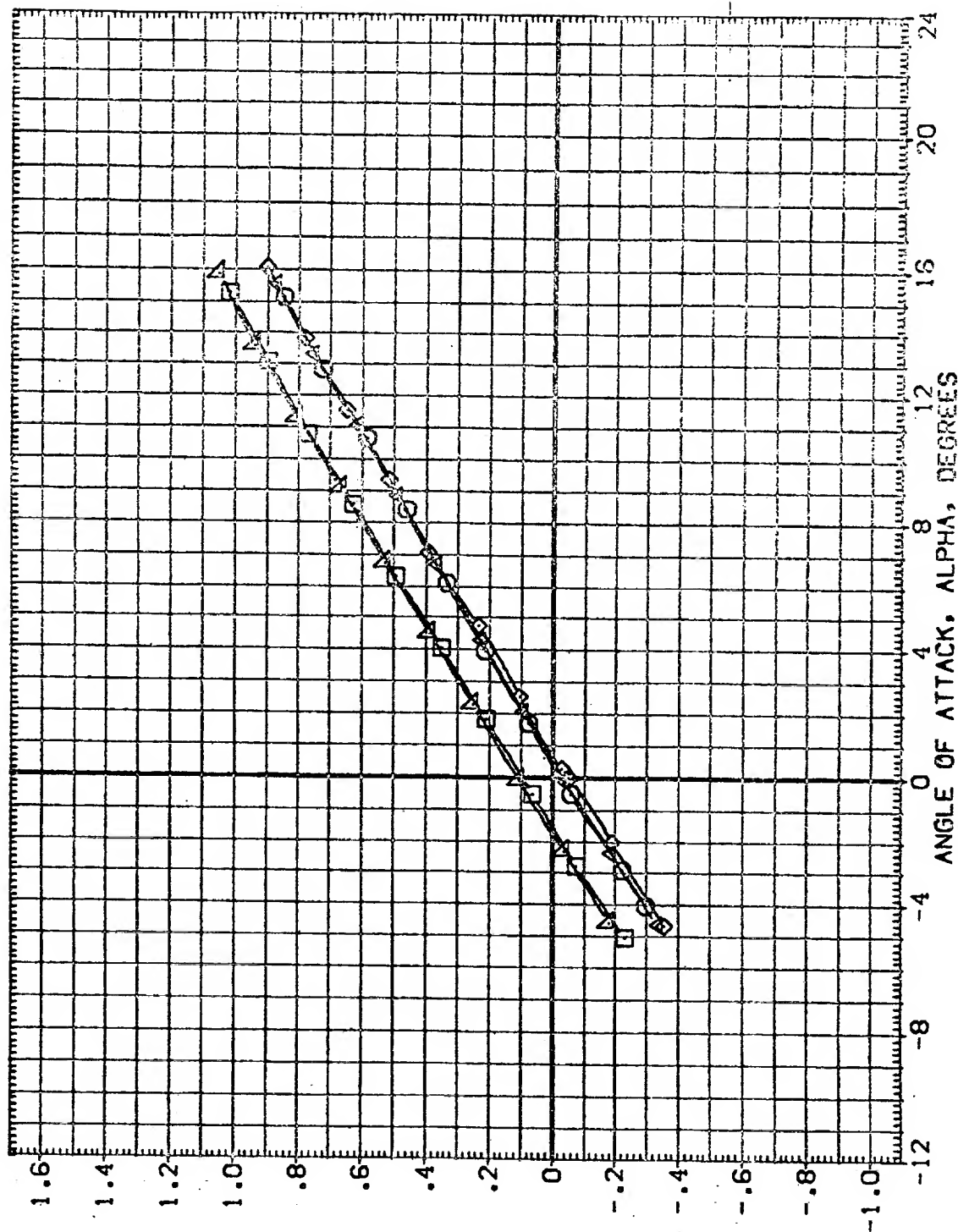


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT
[GER013]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT

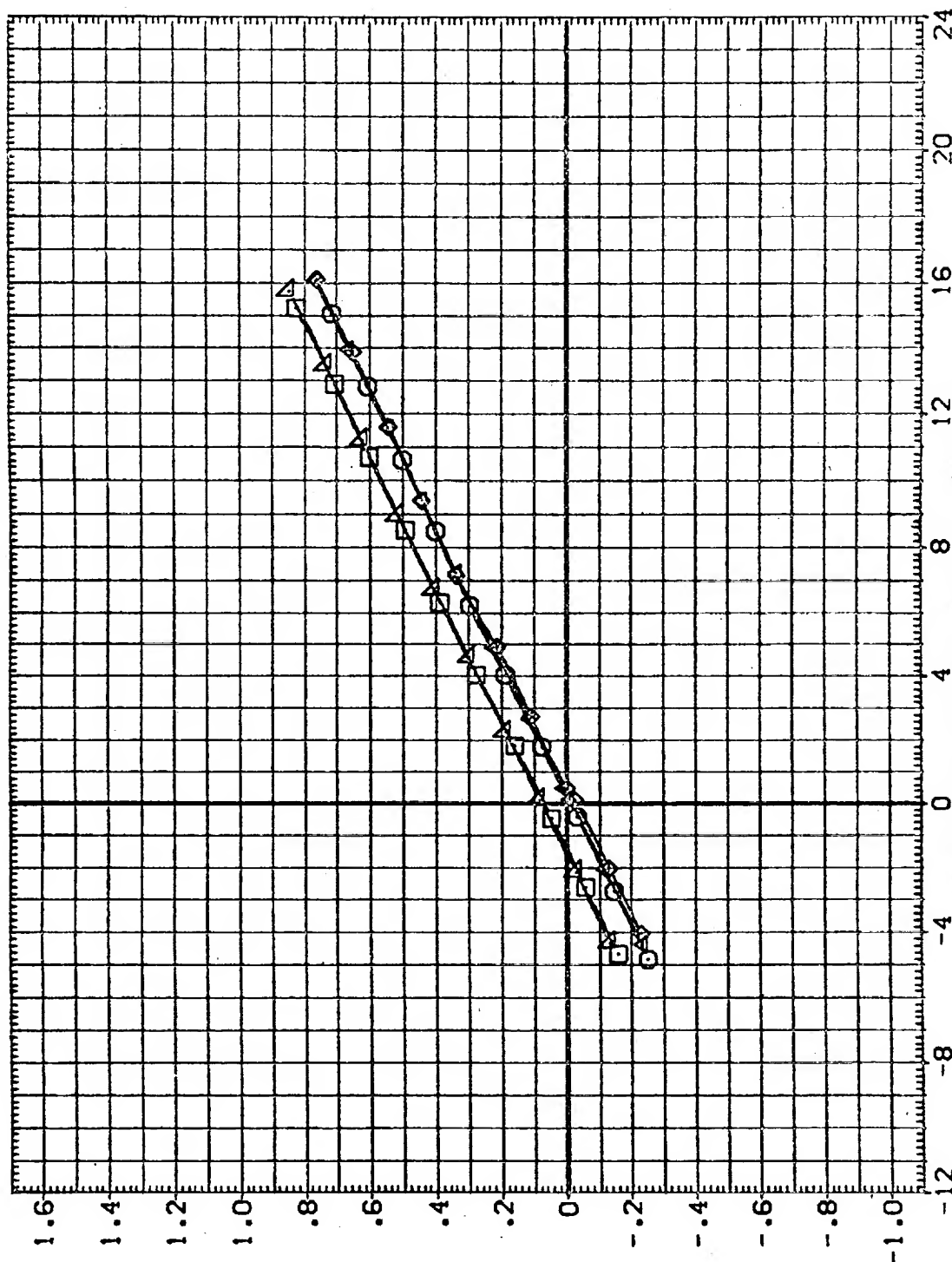


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER013]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

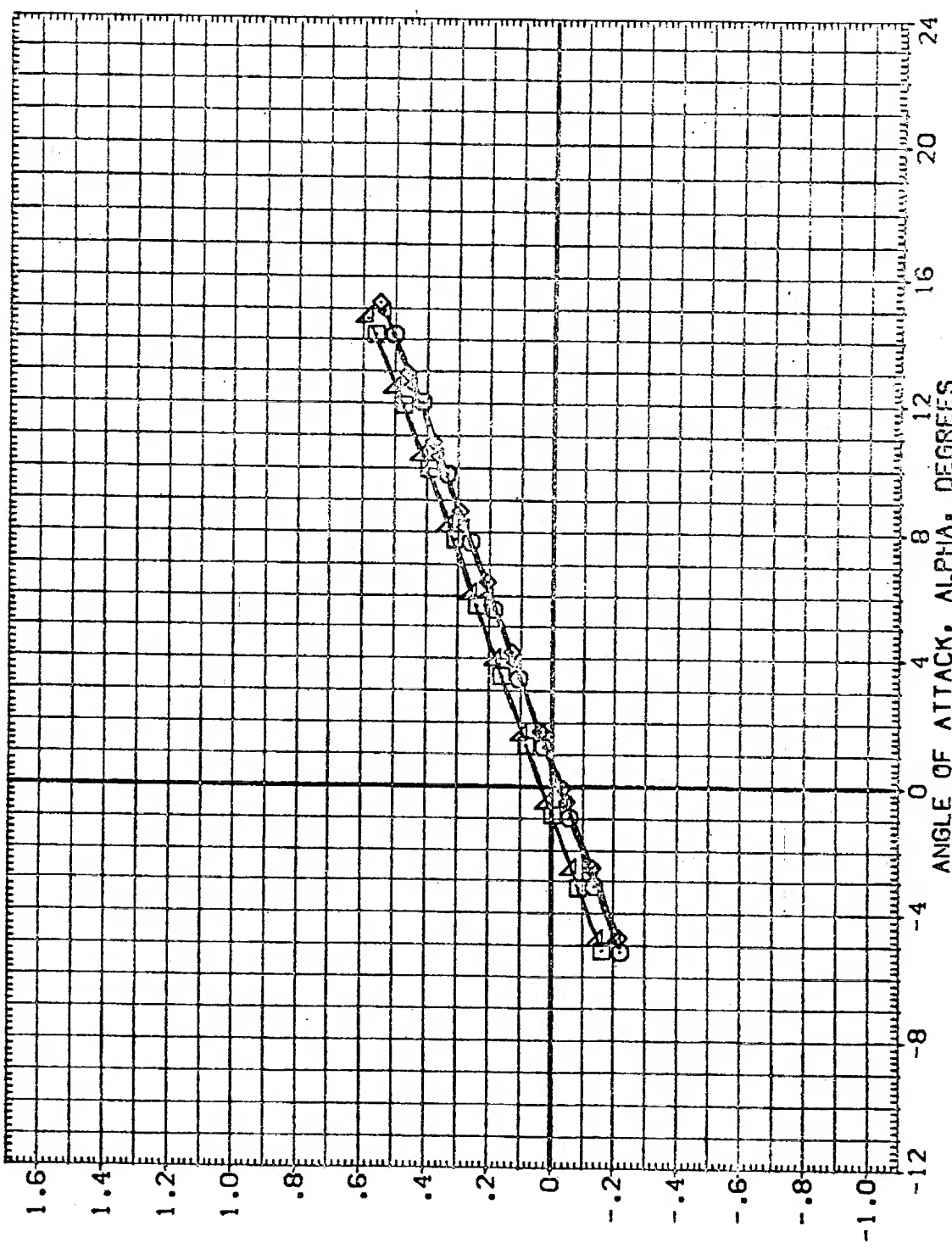


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

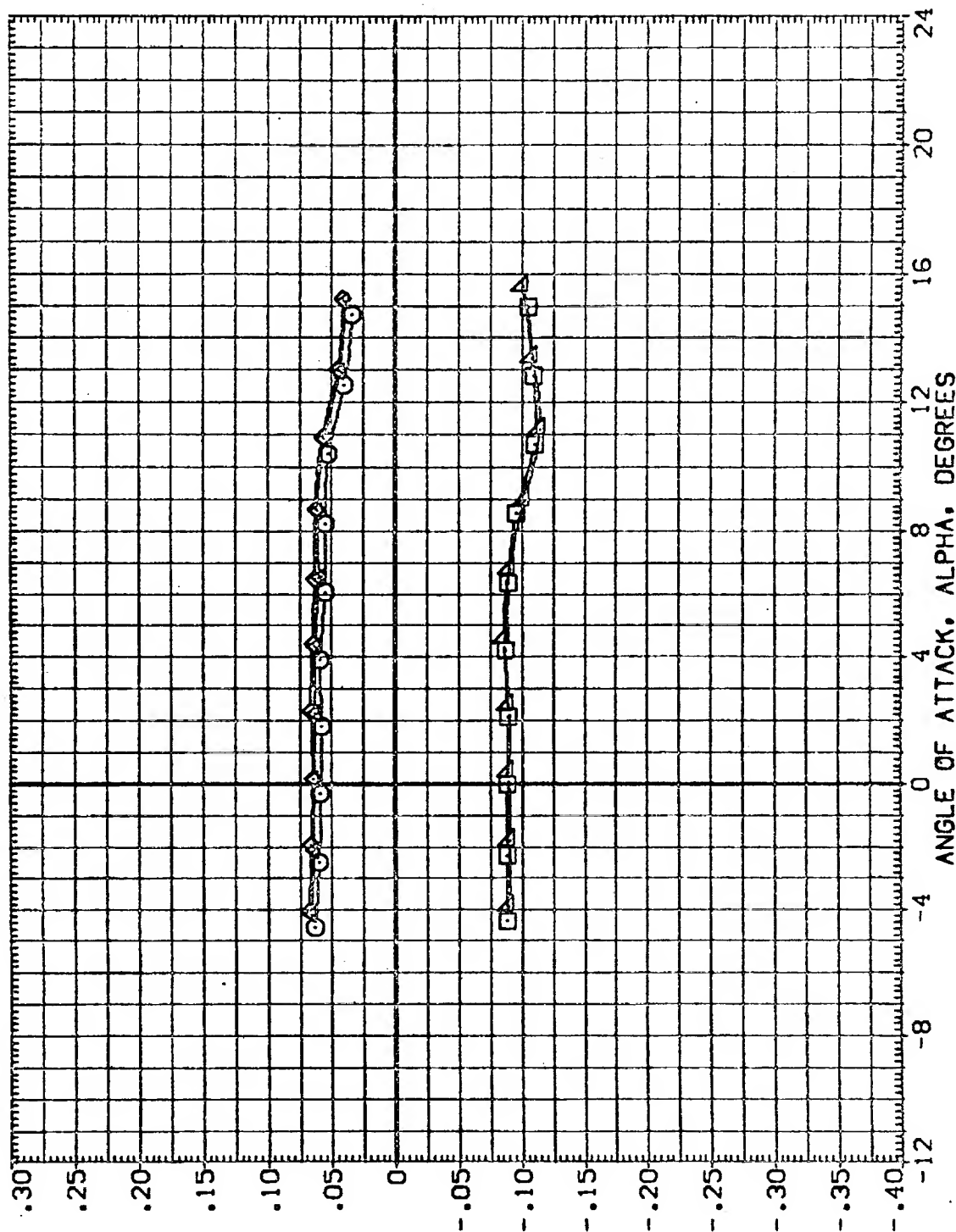
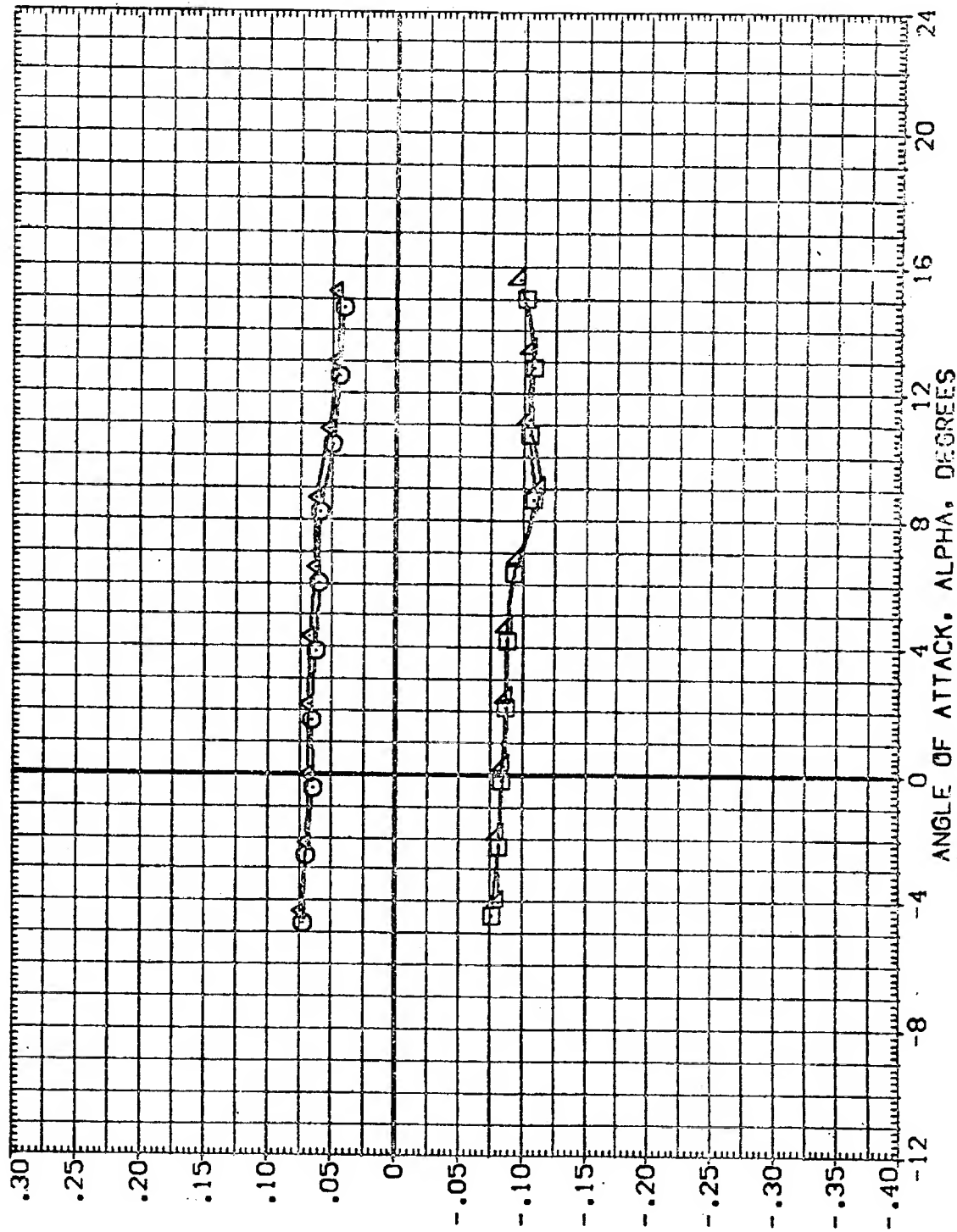


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	DREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP -.0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFWD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

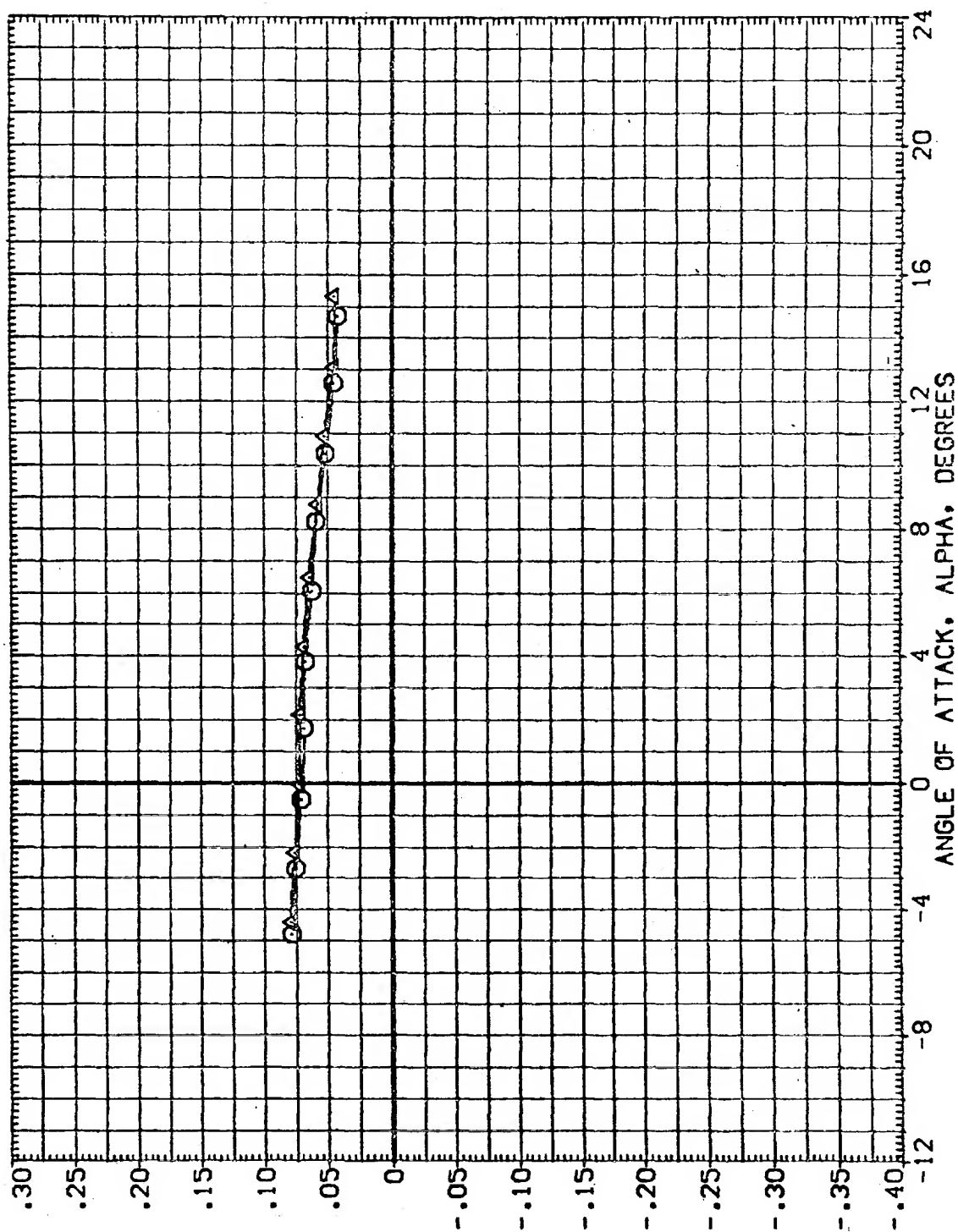
(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(GER001)	ARC 66-709 QAS9 Q111A-(N24 RS V8)-STRUT+DUM STNG	SREF	.6053	50.FT.
(GER003)	DATA NOT AVAILABLE	LREF	.5935	FT.
(GER009)	DATA NOT AVAILABLE	BREF	1.1710	IN.
(GER012)	ARC 66-709 QAS9 Q111A-(RS V8)-STRUT	XMRP	12.6255	IN.
(GER013)	DATA NOT AVAILABLE	YMRP	.0000	IN.
		ZMRP	-.3750	IN.
		SCALE	.0150	

BETA ELEVON BDFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

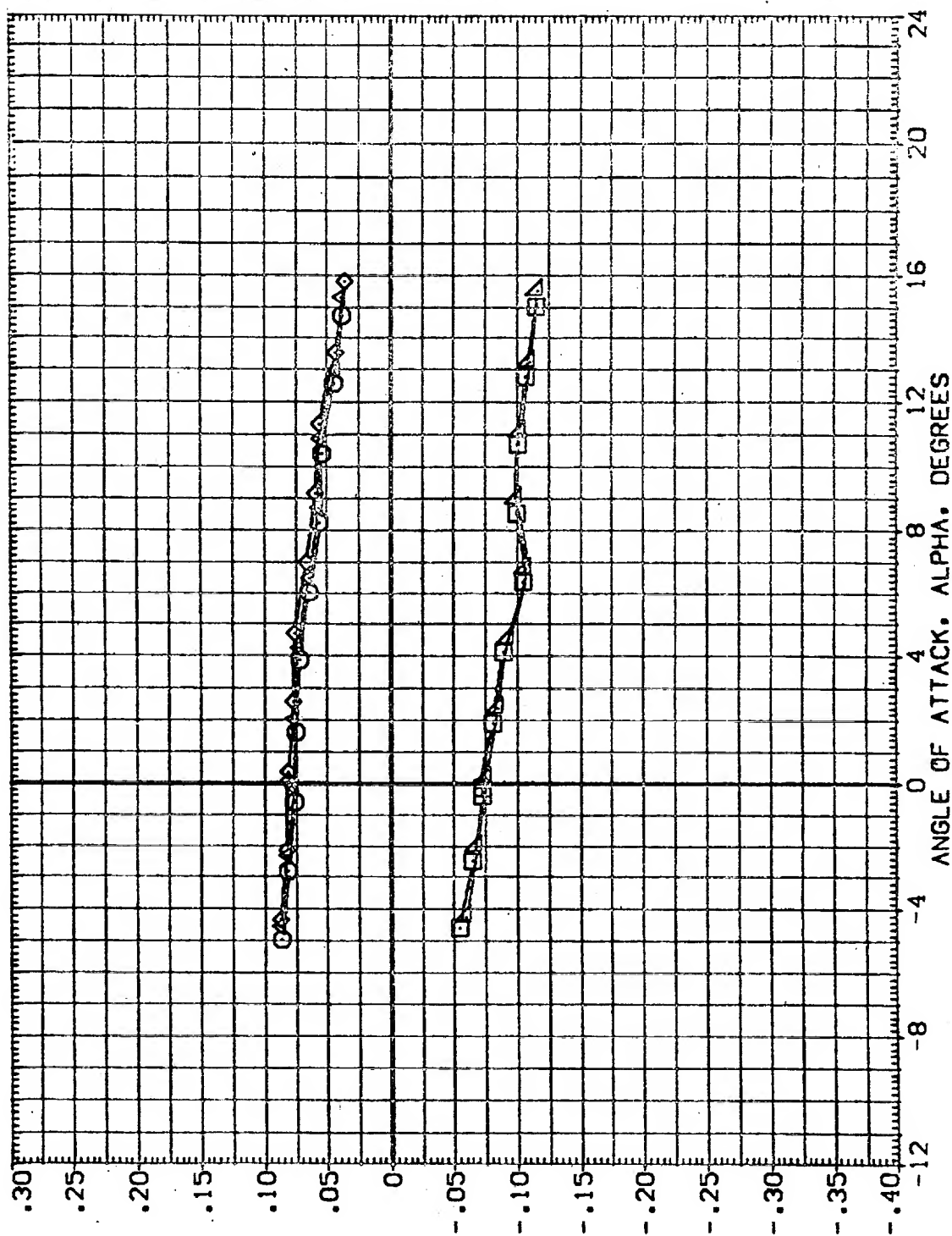


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CD)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	OVERLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 0A11A-(N24 NS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	GREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMPP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

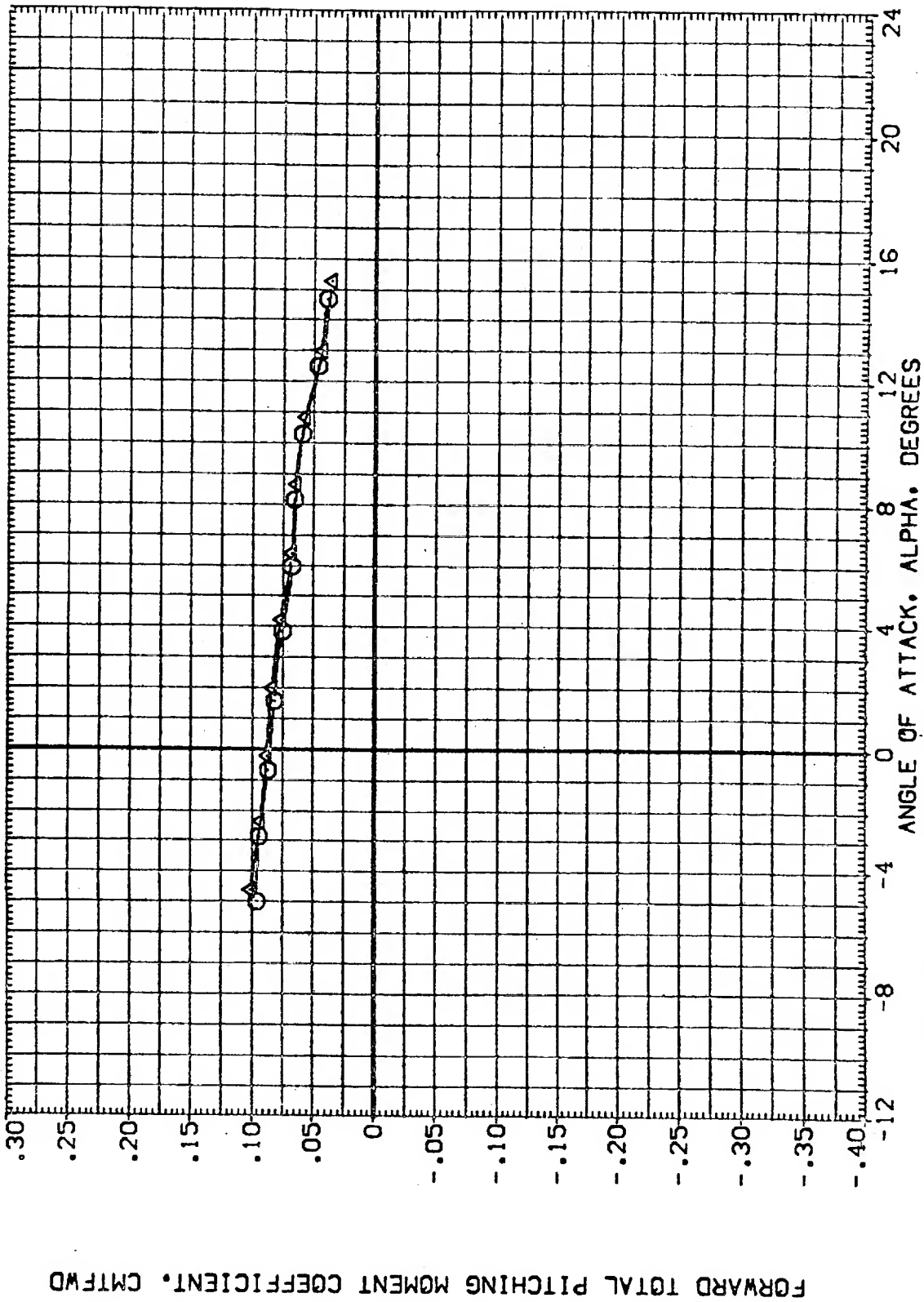


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QA59 QA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 QA59 QA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QA59 QA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 QA59 QA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QA59 QA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

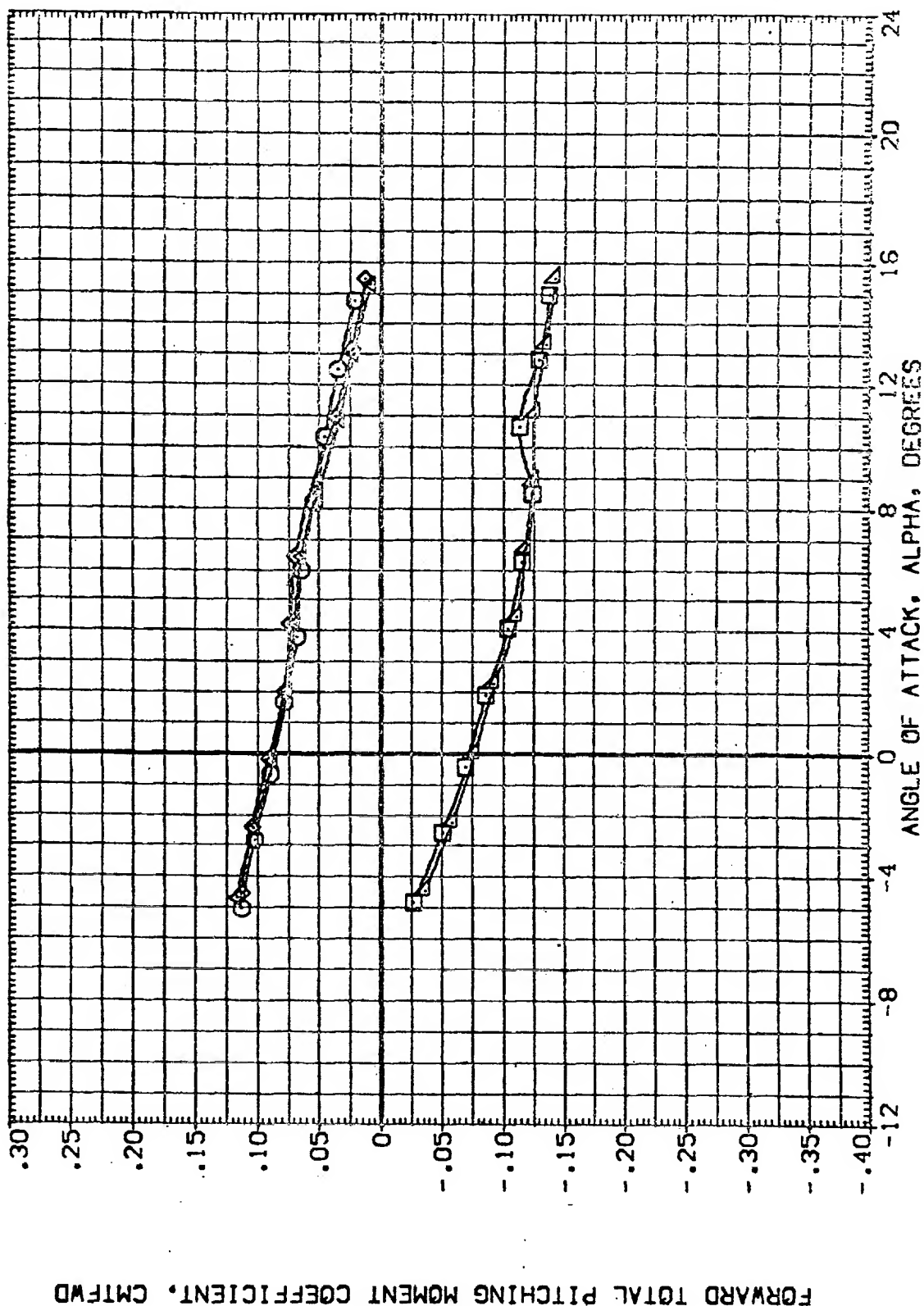


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	SYMBOL
[GER001]	
[GER003]	
[GER009]	
[GER012]	
[GER013]	

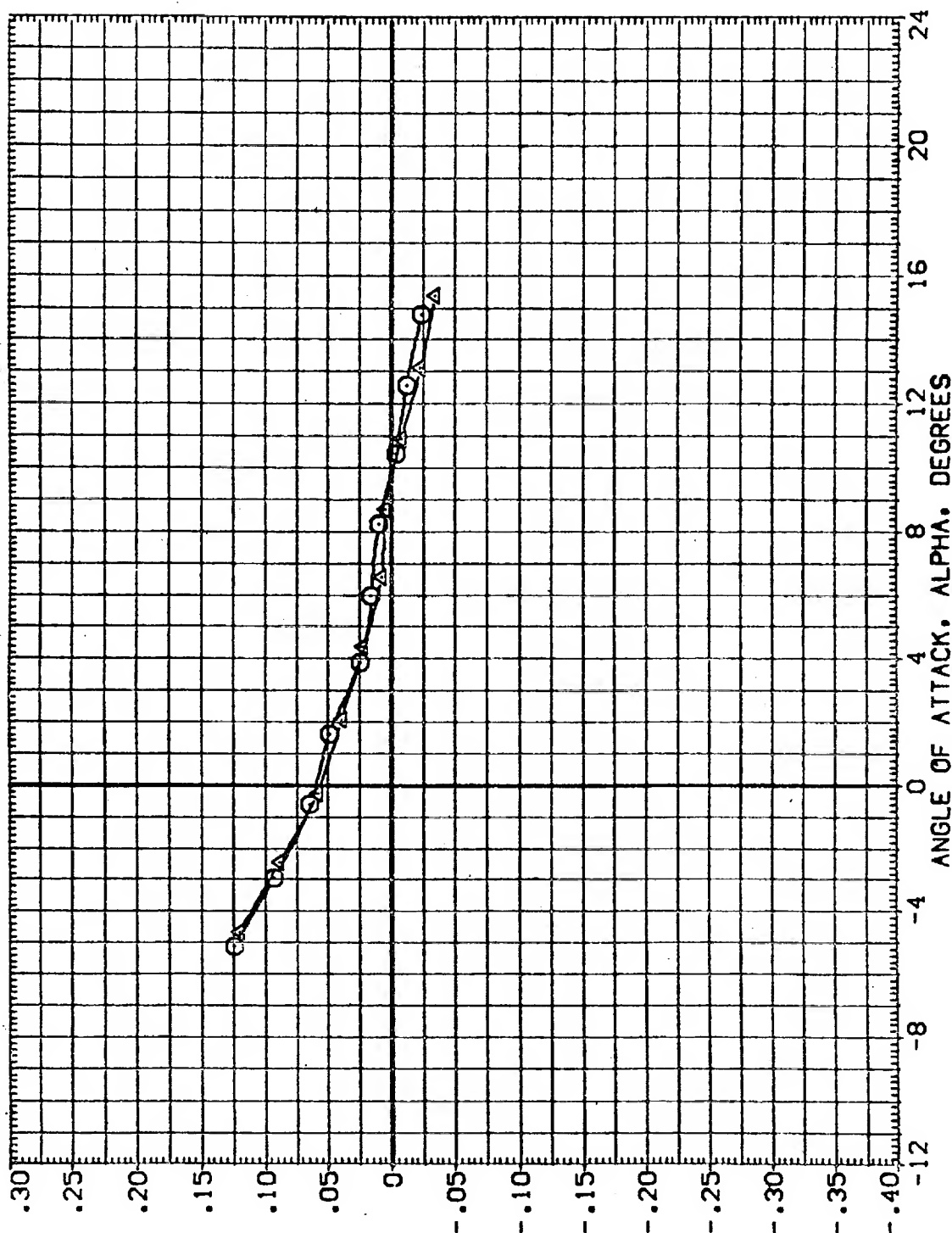


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

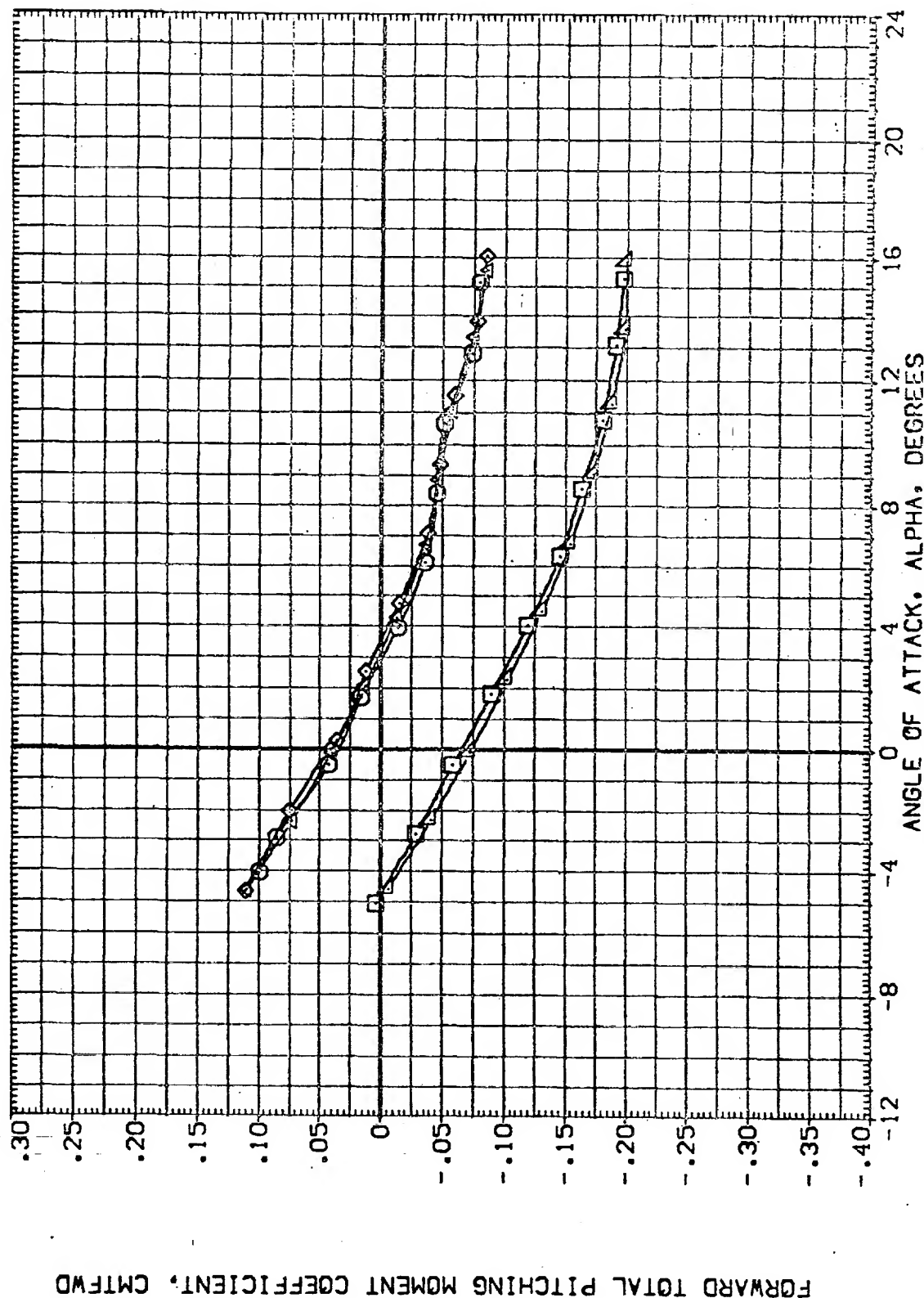


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRF 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

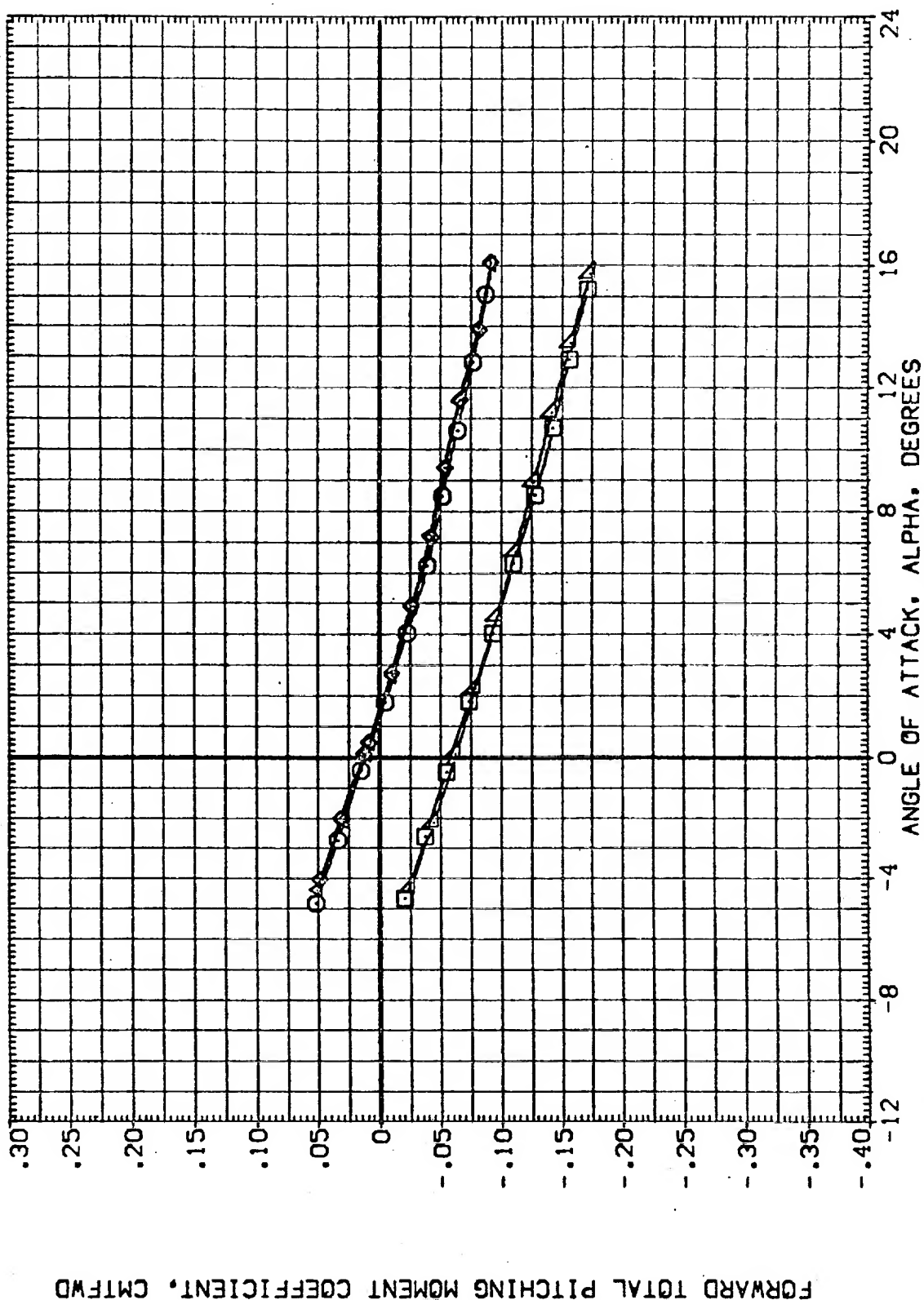


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER003]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
[GER009]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER013]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

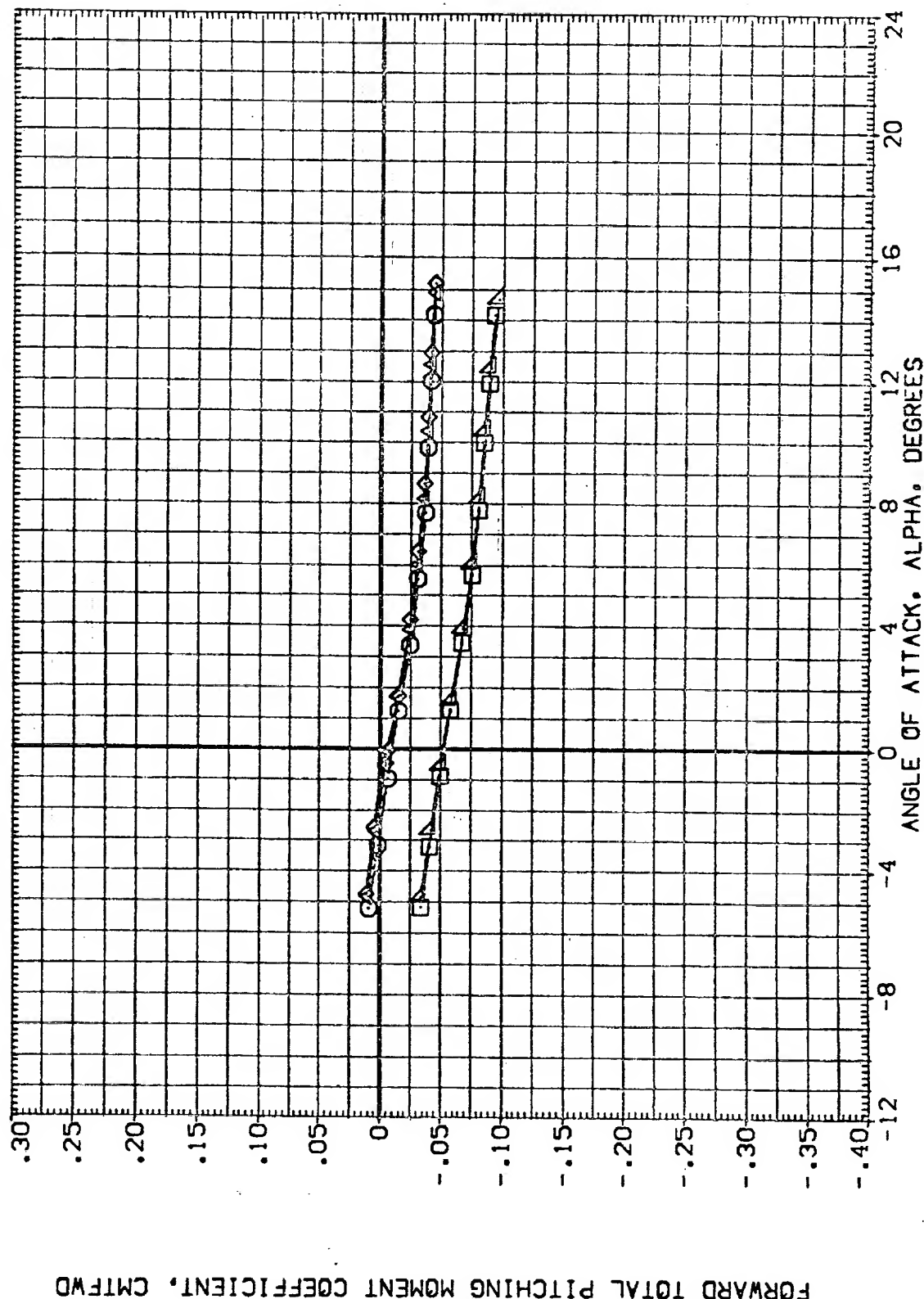


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 DAI1A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 DAI1A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 DAI1A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

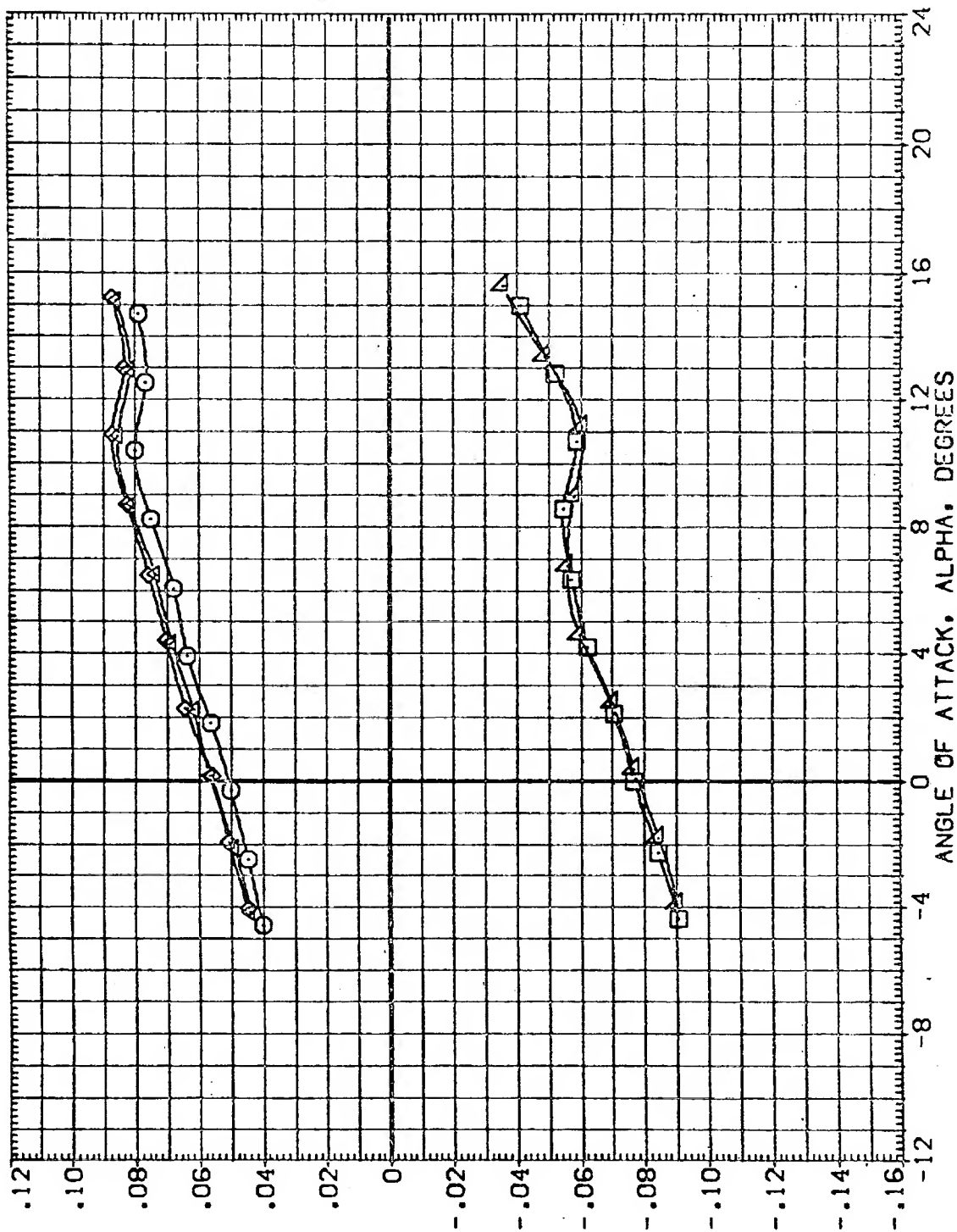


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CAJMACB = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

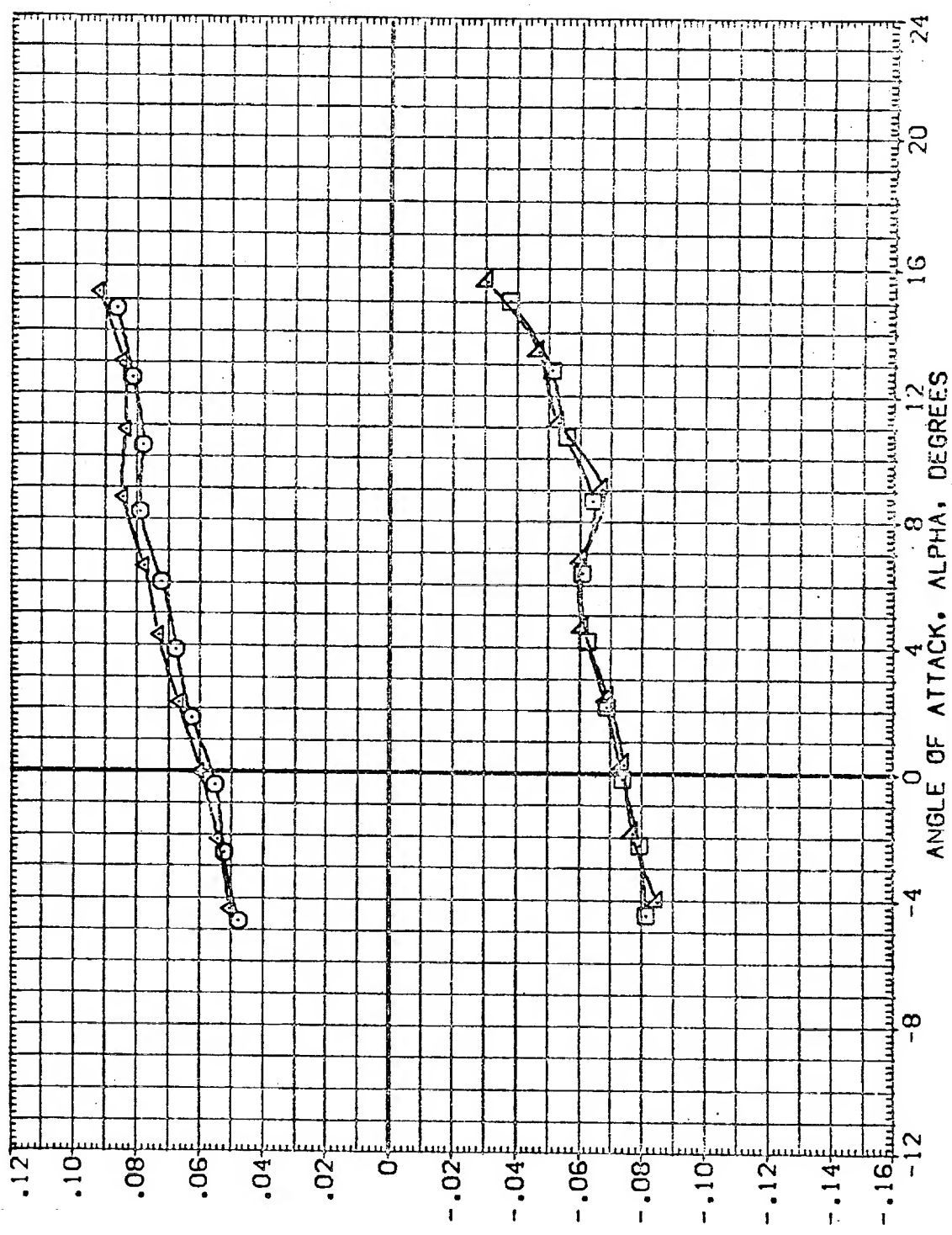


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL: CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 OAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG
 (GER003) DATA NOT AVAILABLE
 (GER009) DATA NOT AVAILABLE
 (GER012) ARC 66-709 OAS9 0A11A-(RS V8)+STRUT
 (GER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

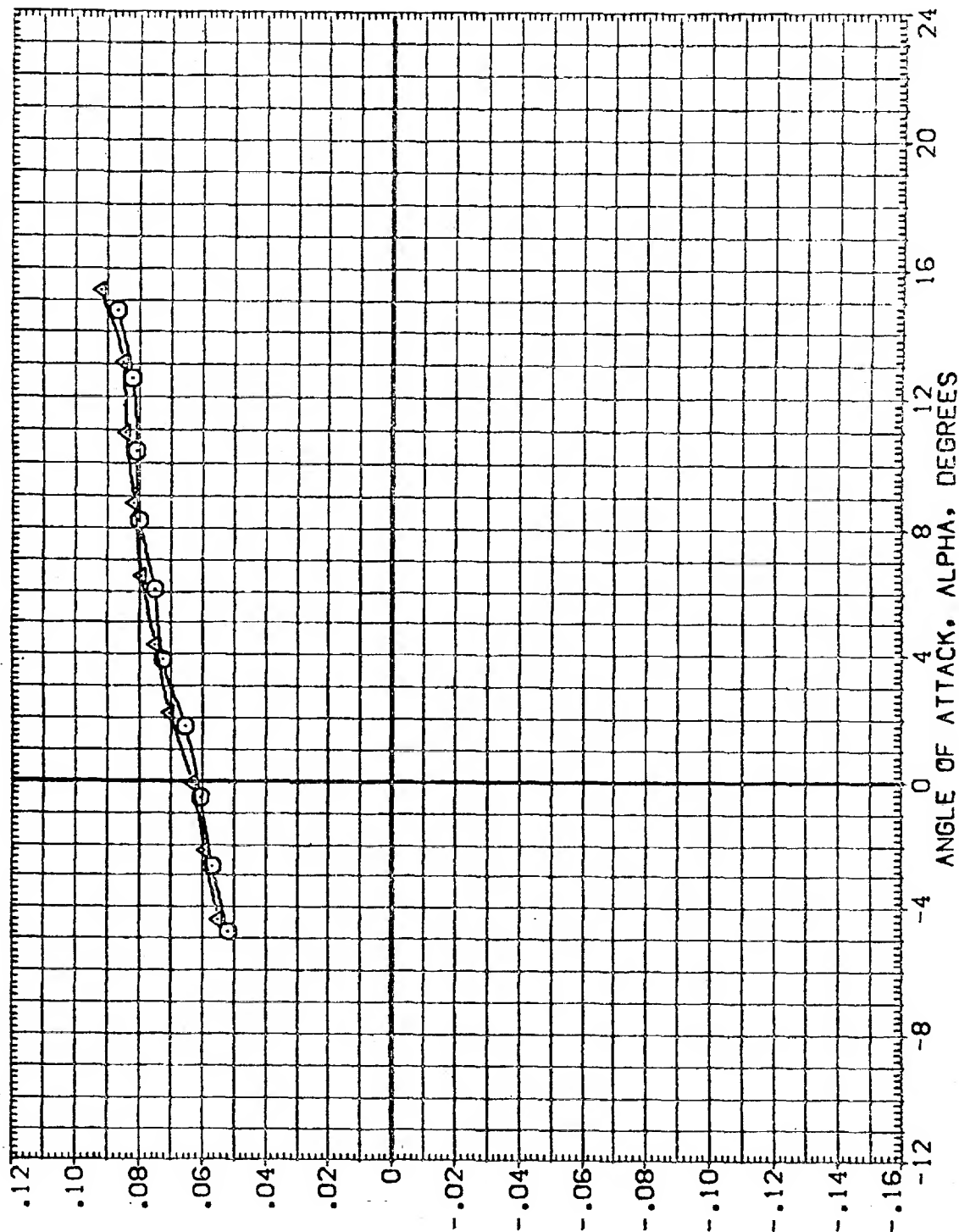


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700

REFERENCE INFORMATION

REFERENCE INFORMATION	50 FT.
SREF	.6053
LREF	.5935
BREF	1.1710
XMRP	12.6255
YMRP	.0000
ZMRP	-.3750
SCALE	.0150

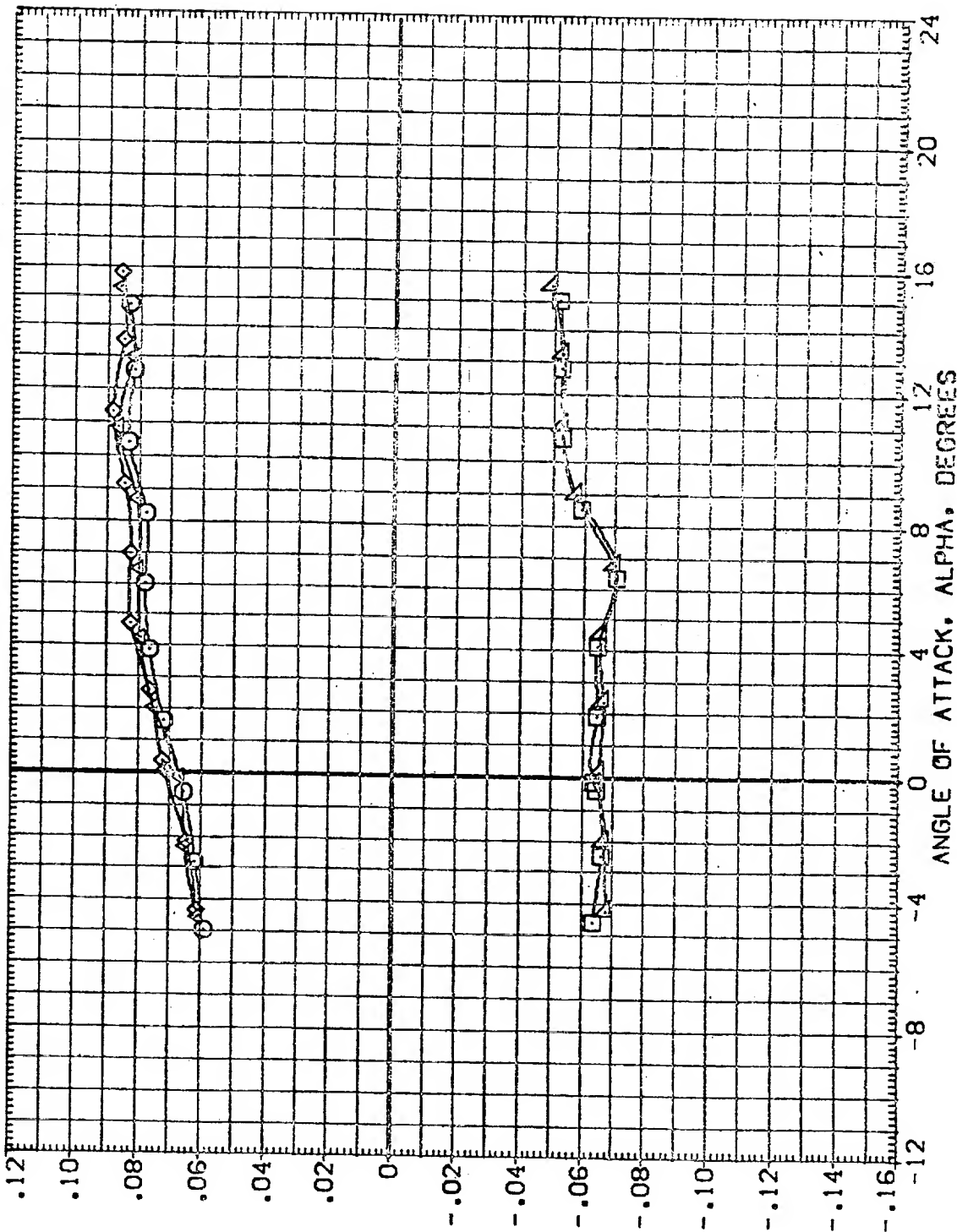


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 QAS9 Q111A-(N24 RS V8)*STRUT+QJM STNG

(GER003) DATA NOT AVAILABLE

(GER009) DATA NOT AVAILABLE

(GER012) ARC 66-709 QAS9 Q111A-(RS V8)*STRUT

(GER013) DATA NOT AVAILABLE

BETA ELEVON 80% LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

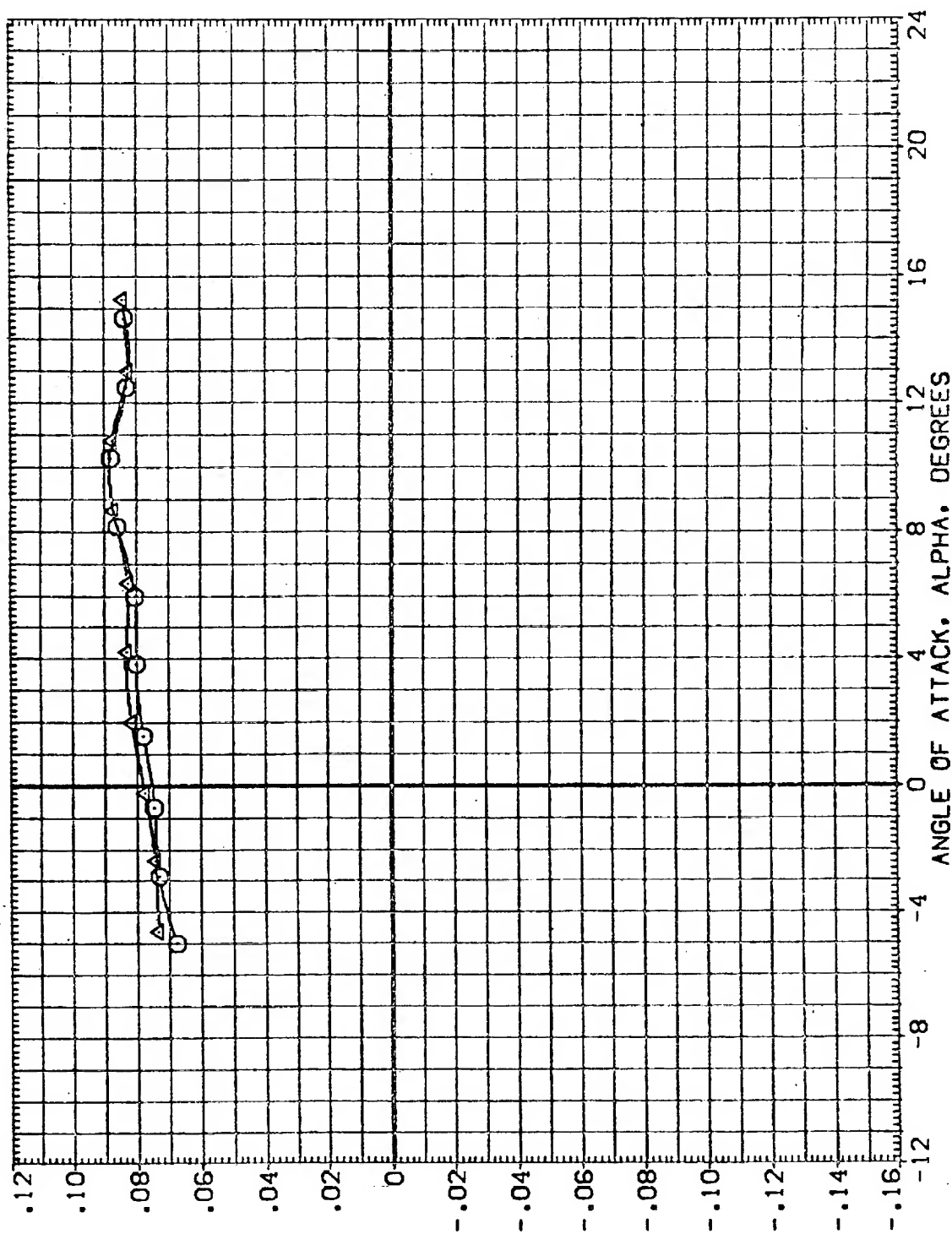
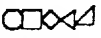


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .85

DATA SET SYMBOL

(GER001)
(GER003)
(GER009)
(GER012)
(GER013)



CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
ARC 66-709 0A59 0A11A-(RS V8)+STRUT
ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA

.000
.000
.000
.000
.000
15.000
15.000
15.000

ELEVON

.000
15.000
.000
.000
.000
15.000
15.000
15.000

BOFLAP

-11.700
-11.700
-11.700
-11.700
-11.700
-11.700
-11.700
-11.700

REFERENCE INFORMATION

SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

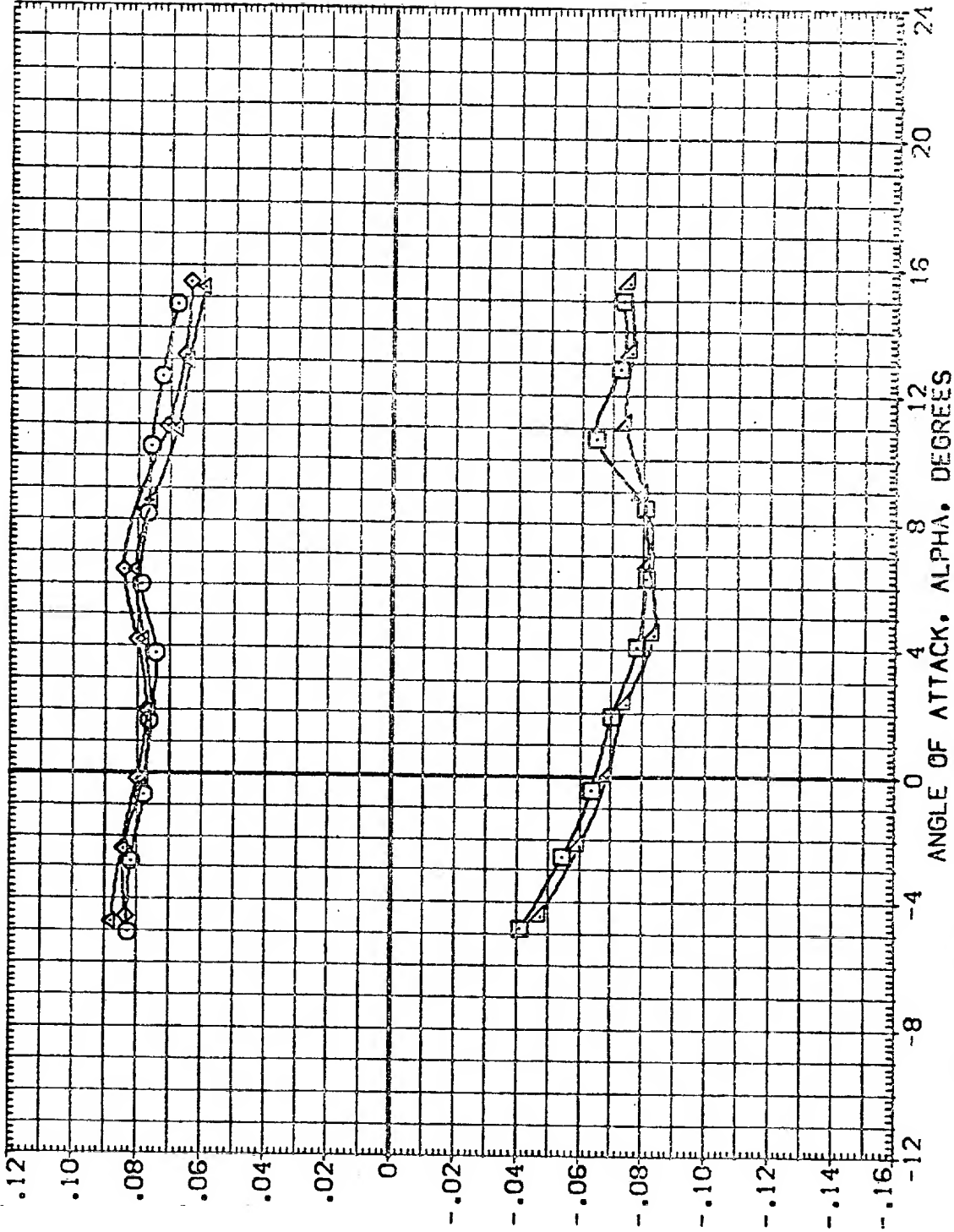


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION

SREF	.8053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

ELEVON

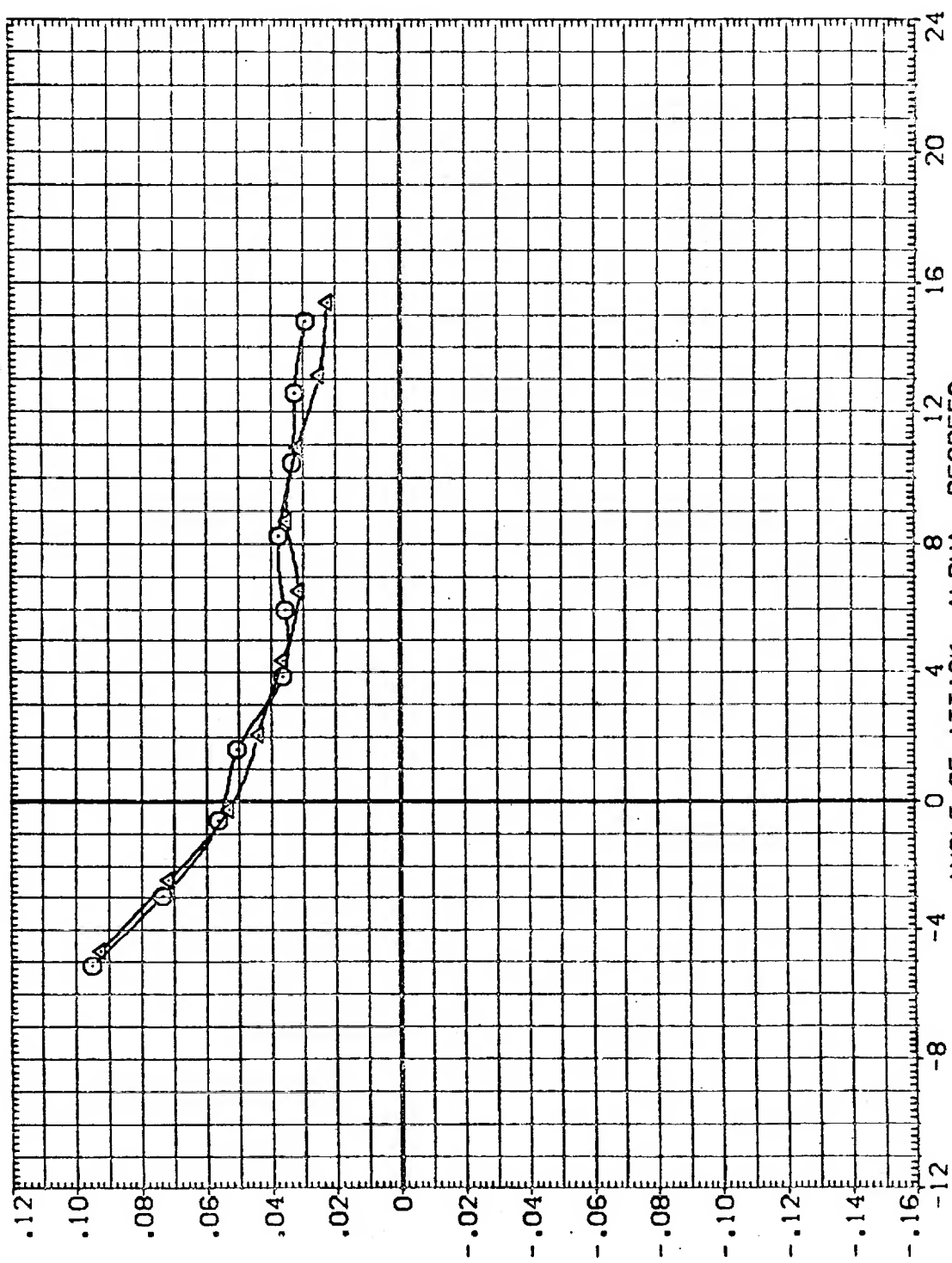
BOFLAP	-11.700
ELEVON	.000
BETA	.000
BOFLAP	-11.700
ELEVON	.000
BETA	.000
BOFLAP	-11.700
ELEVON	.000
BETA	.000
BOFLAP	-11.700
ELEVON	.000
BETA	.000

CONFIGURATION DESCRIPTION

ARC 66-709 QAS9 QAI1A-(N24 R5 V8)-STRUT+OUM STNG
DATA NOT AVAILABLE
DATA NOT AVAILABLE
ARC 66-709 QAS9 QAI1A-(R5 V8)-STRUT
DATA NOT AVAILABLE

DATA SET SYMBOL

(GER001)
(GER003)
(GER009)
(GER012)
(GER013)



AFT TOTAL PITCHING MOMENT COEFFICIENT, CMAFT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

AFT TOTAL PITCHING MOMENT COEFFICIENT, CMTAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOF LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QA59 GA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QA59 GA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

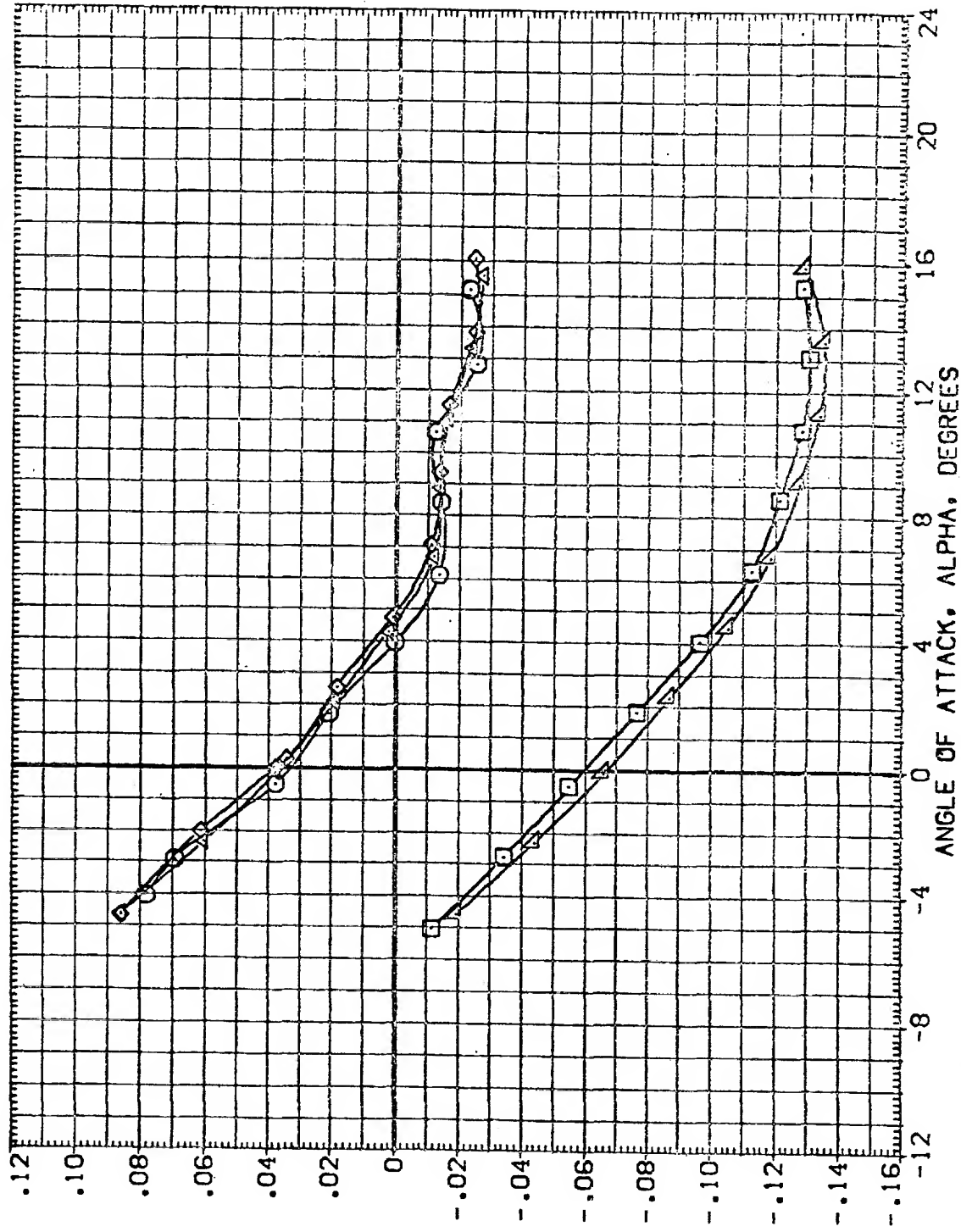


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

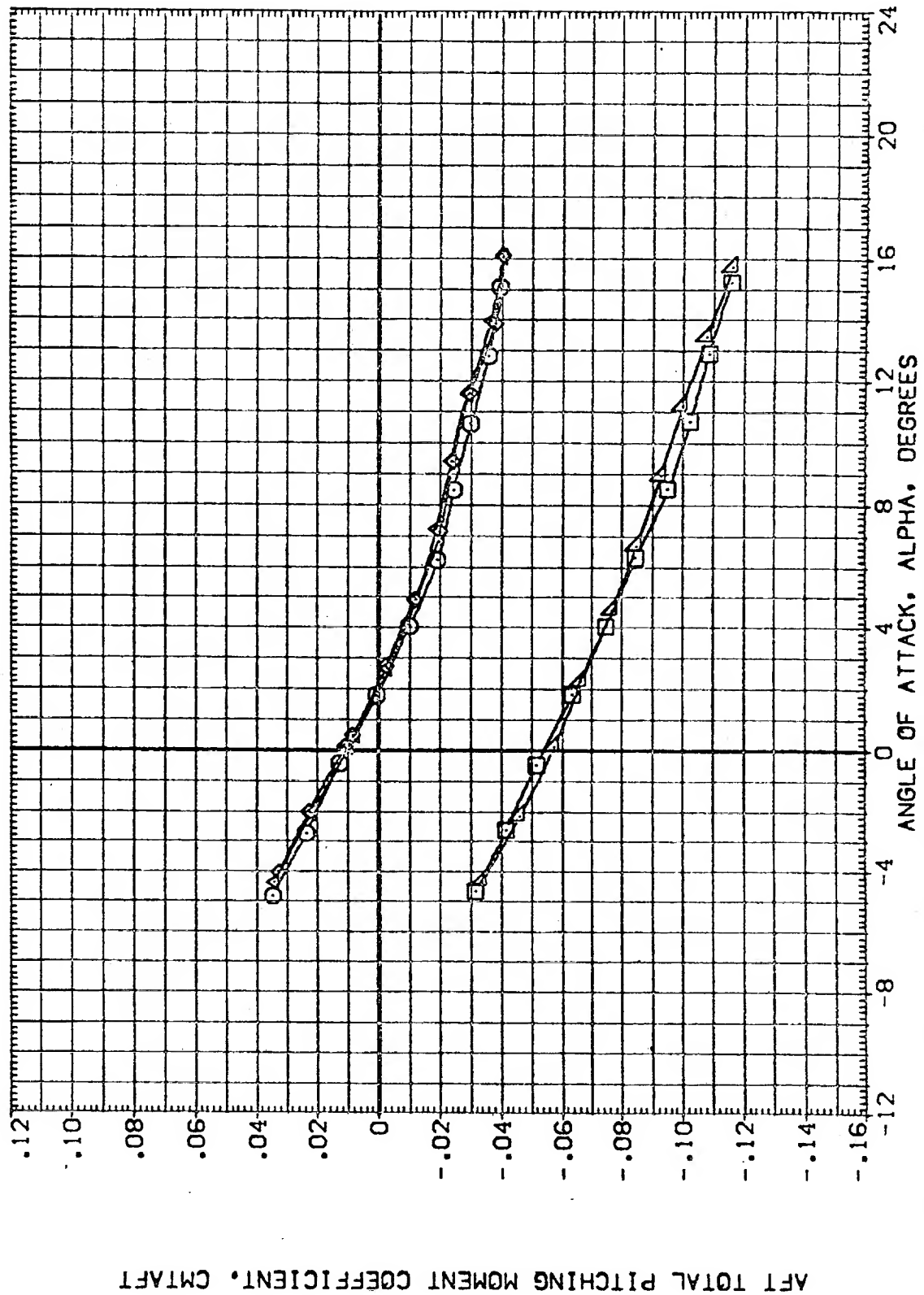


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

AFT TOTAL PITCHING MOMENT COEFFICIENT, CM1AFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SO.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

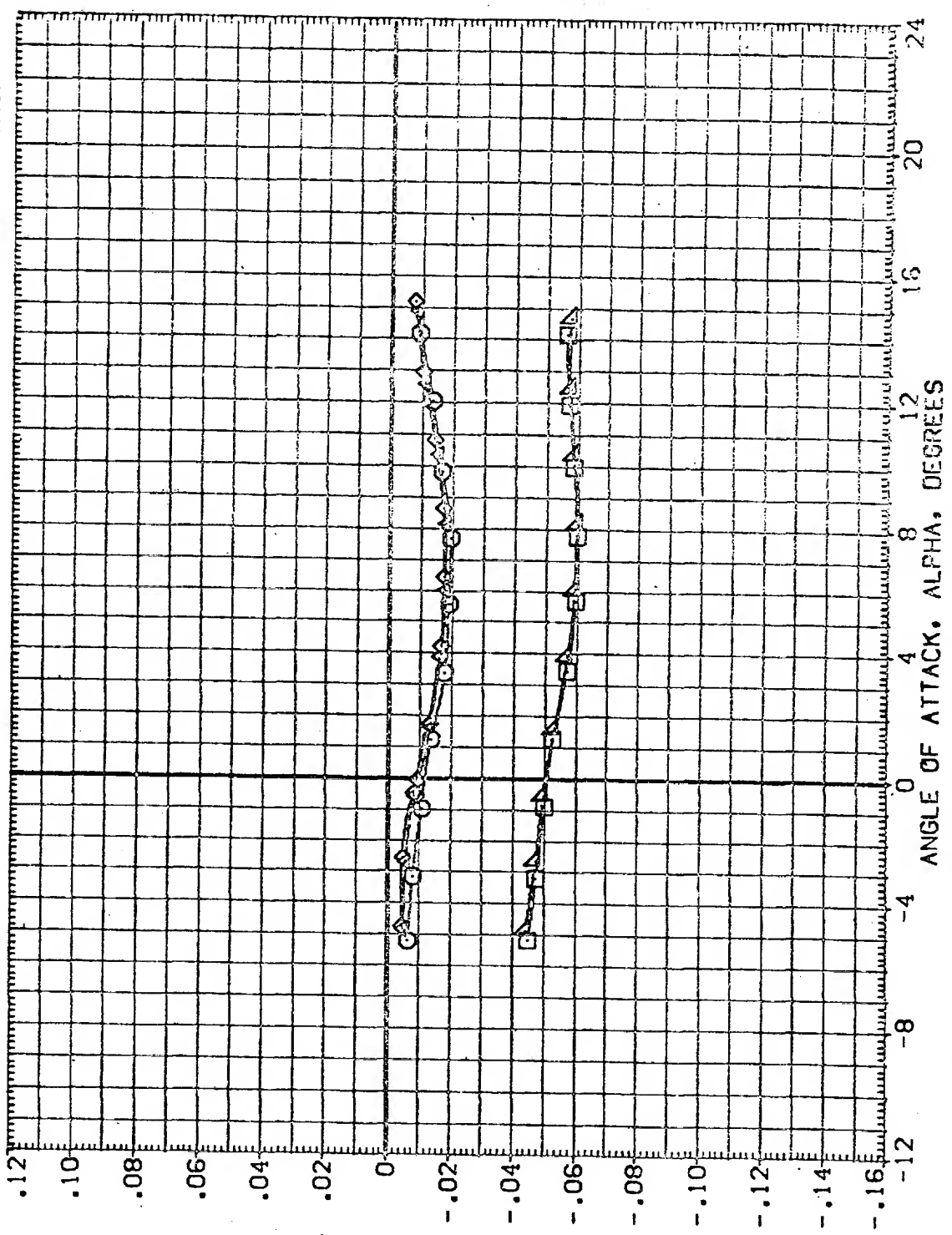


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SO.FT.
(GER003)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

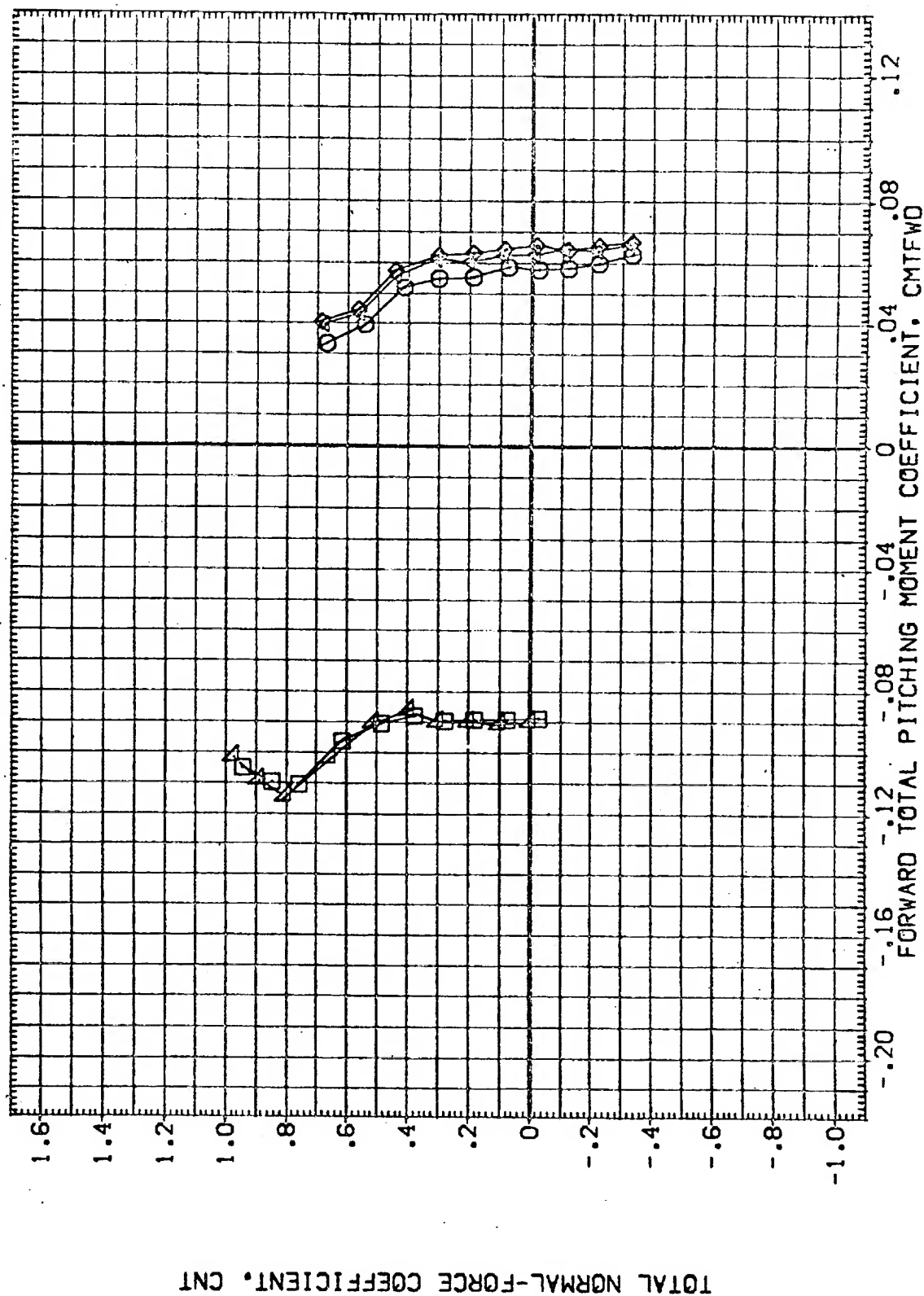


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

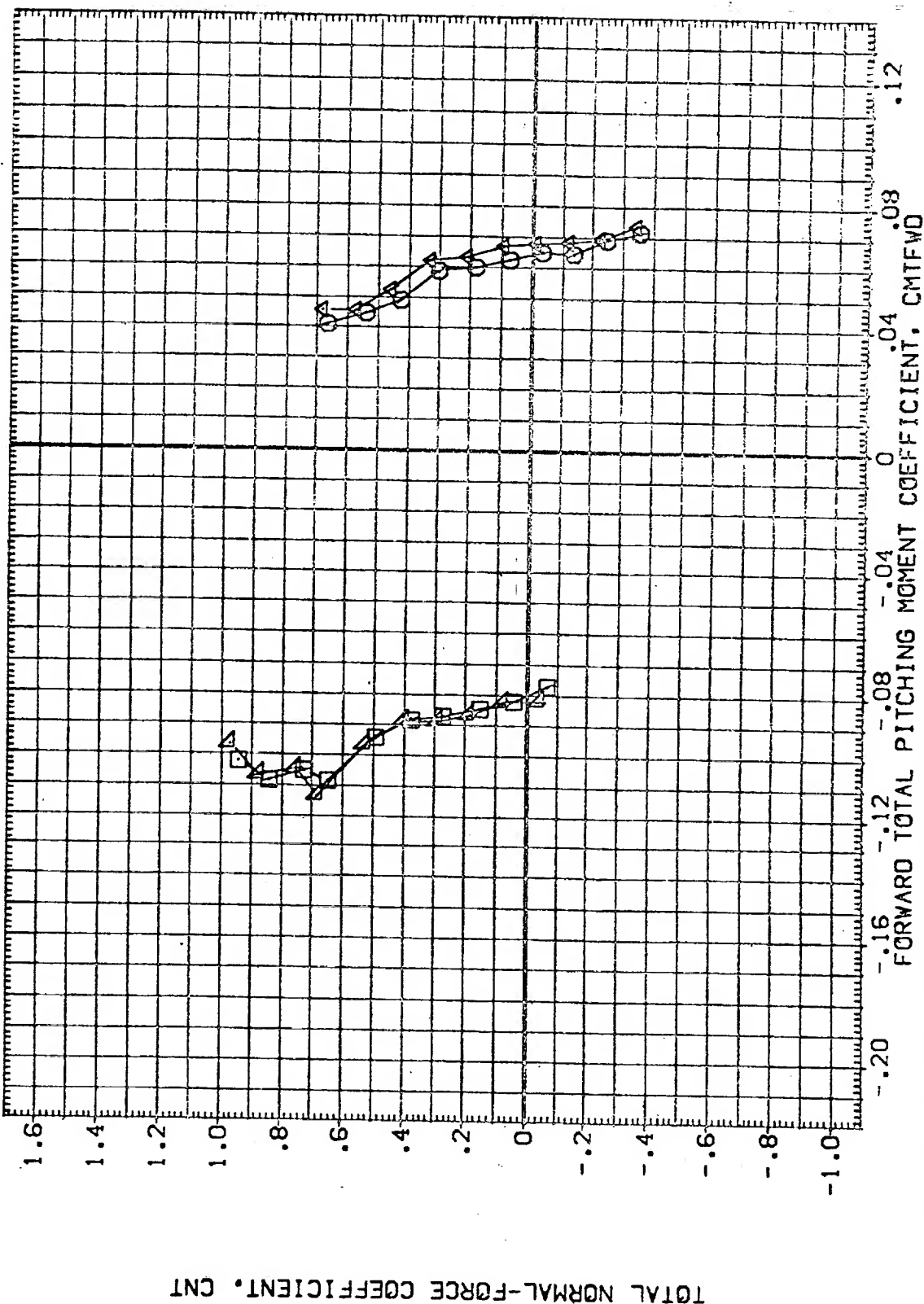


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+QUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

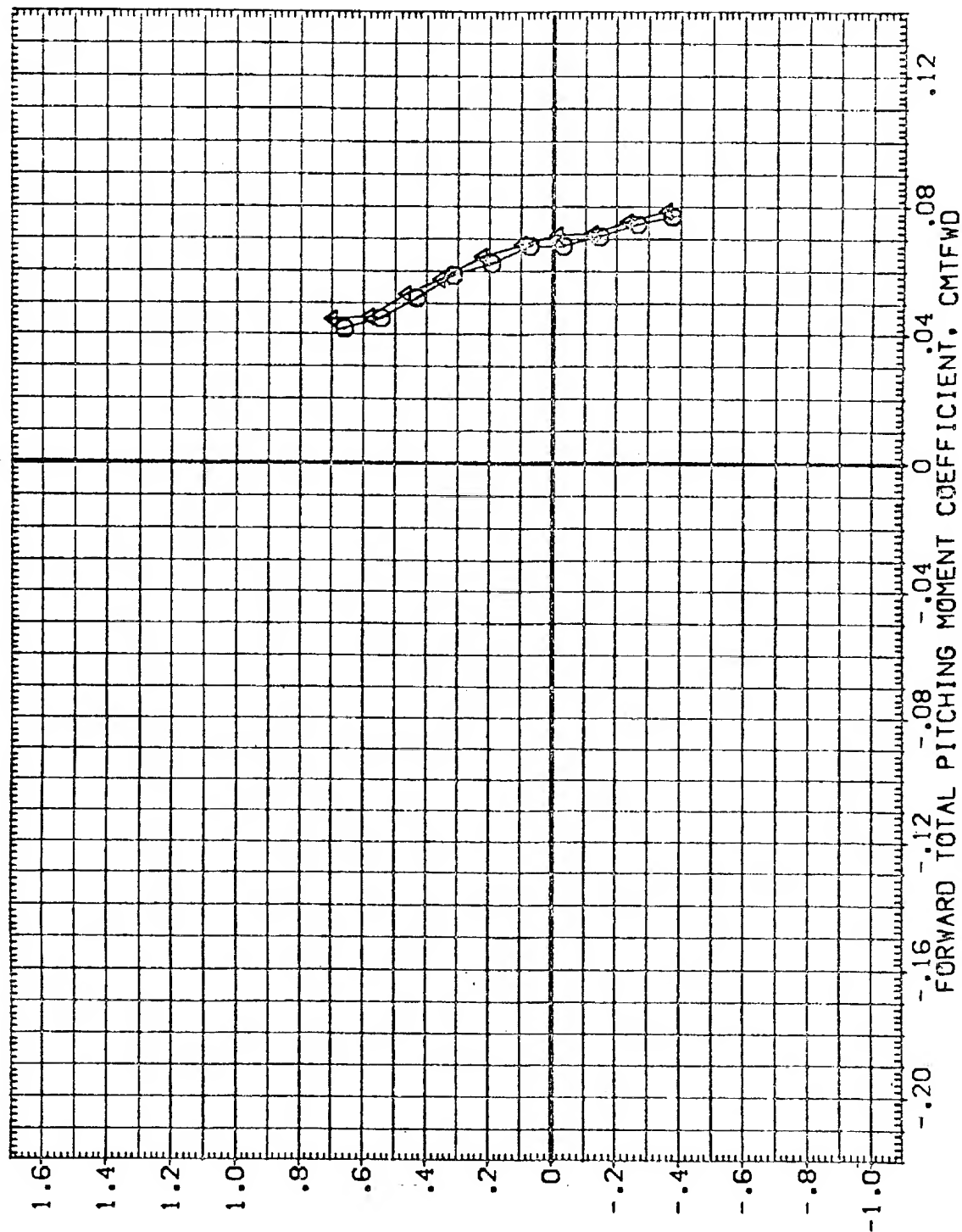


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709	QAS9	QALIA-(N24 RS	V8)+STRUT+DUM	STNG
(GER003)	ARC 66-709	QAS9	QALIA-(N24 RS	V8)+STRUT+DUM	STNG
(GER009)	ARC 66-709	QAS9	QALIA-(N24 RS	V8)+STRUT	
(GER012)	ARC 66-709	QAS9	QALIA-(RS V8)+STRUT		
(GER013)	ARC 66-709	QAS9	QALIA-(RS V8)+STRUT		

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
YMRP	12.6235	IN.
ZMRP	-3750	IN.
SCALE	.0150	

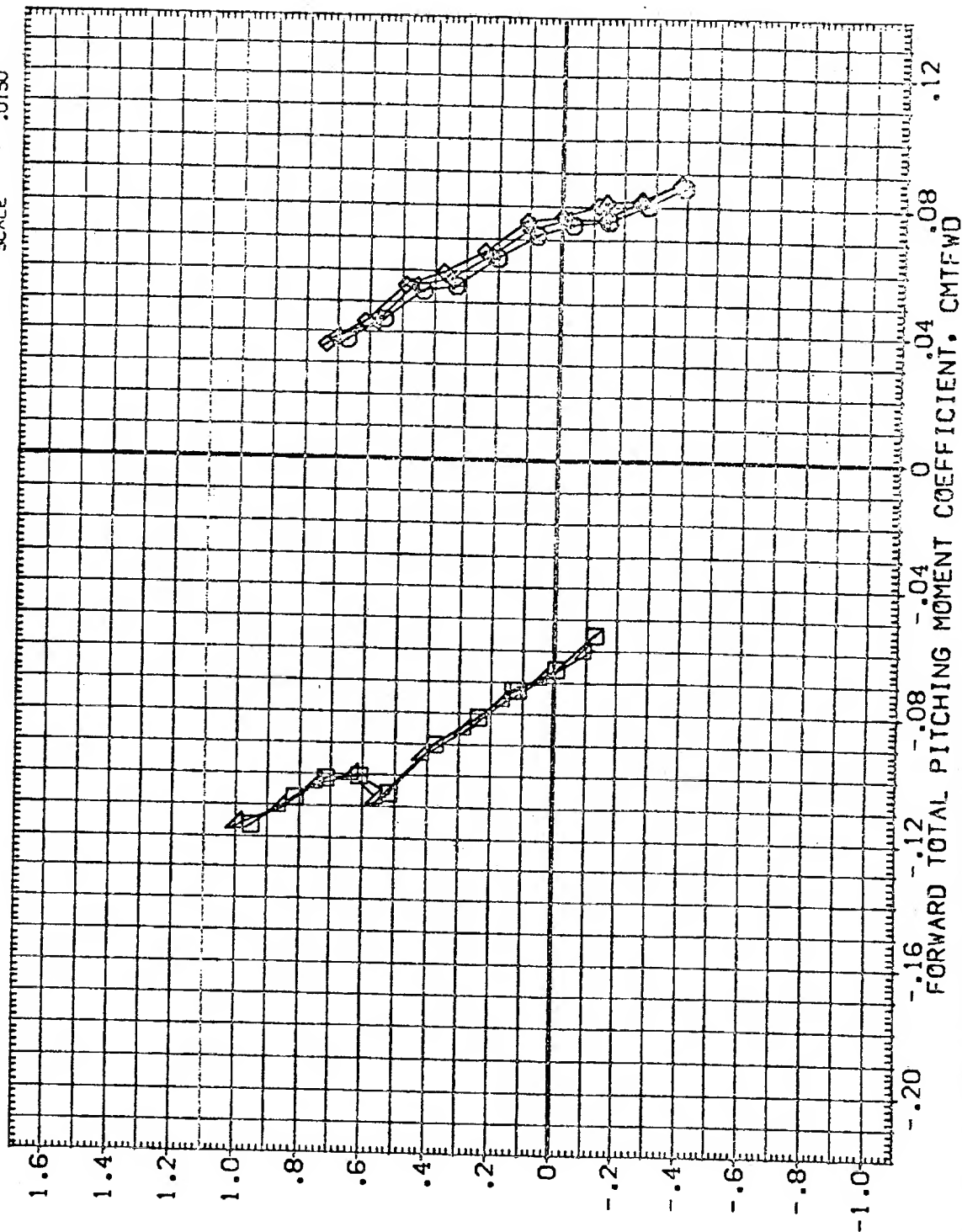


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+OLM STNG

(GER003) DATA NOT AVAILABLE

(GER009) DATA NOT AVAILABLE

(GER012) ARC 66-709 QAS9 0A11A-(RS V8)*STRUT

(GER013) DATA NOT AVAILABLE

BETA ELEVON 80FLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

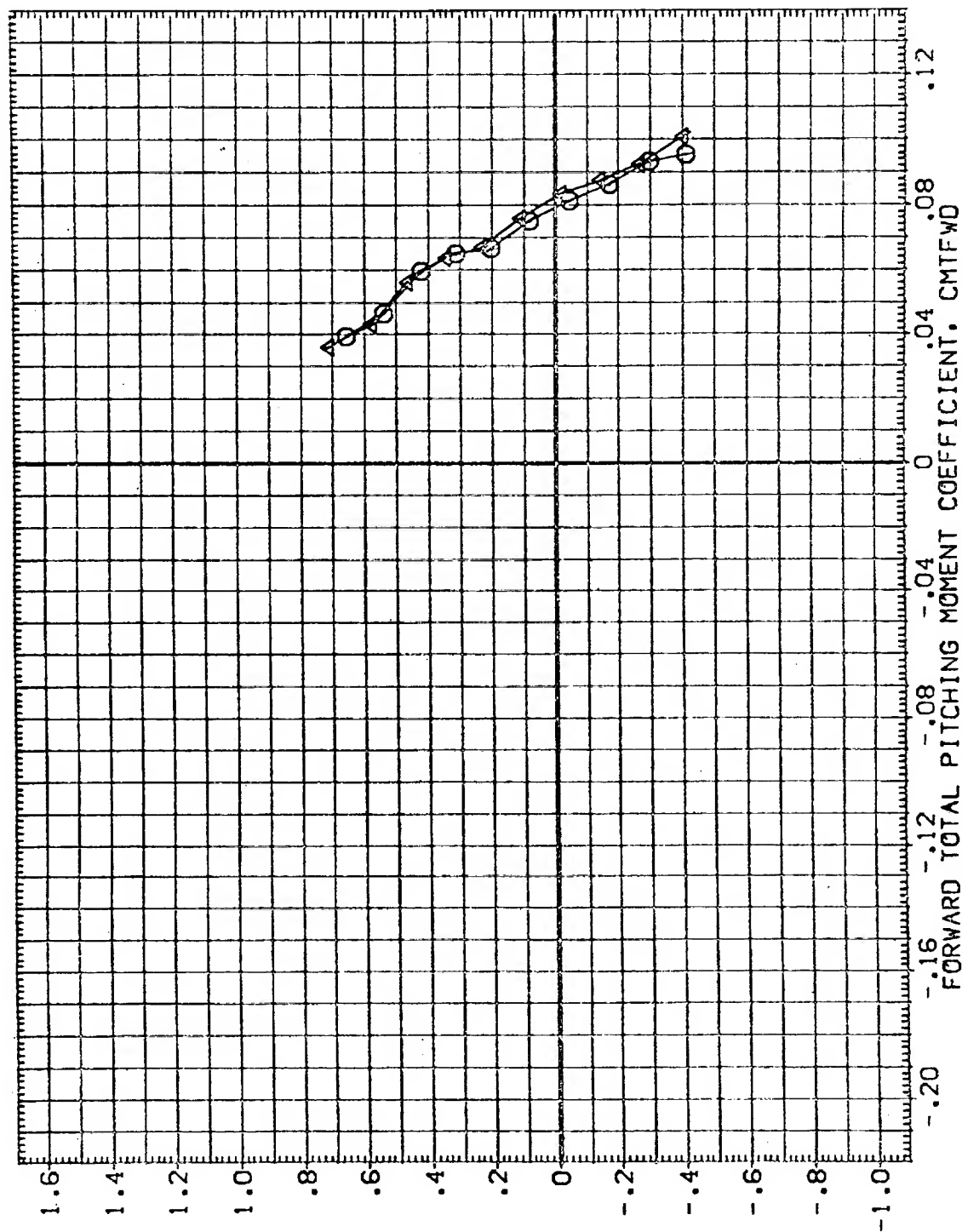


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

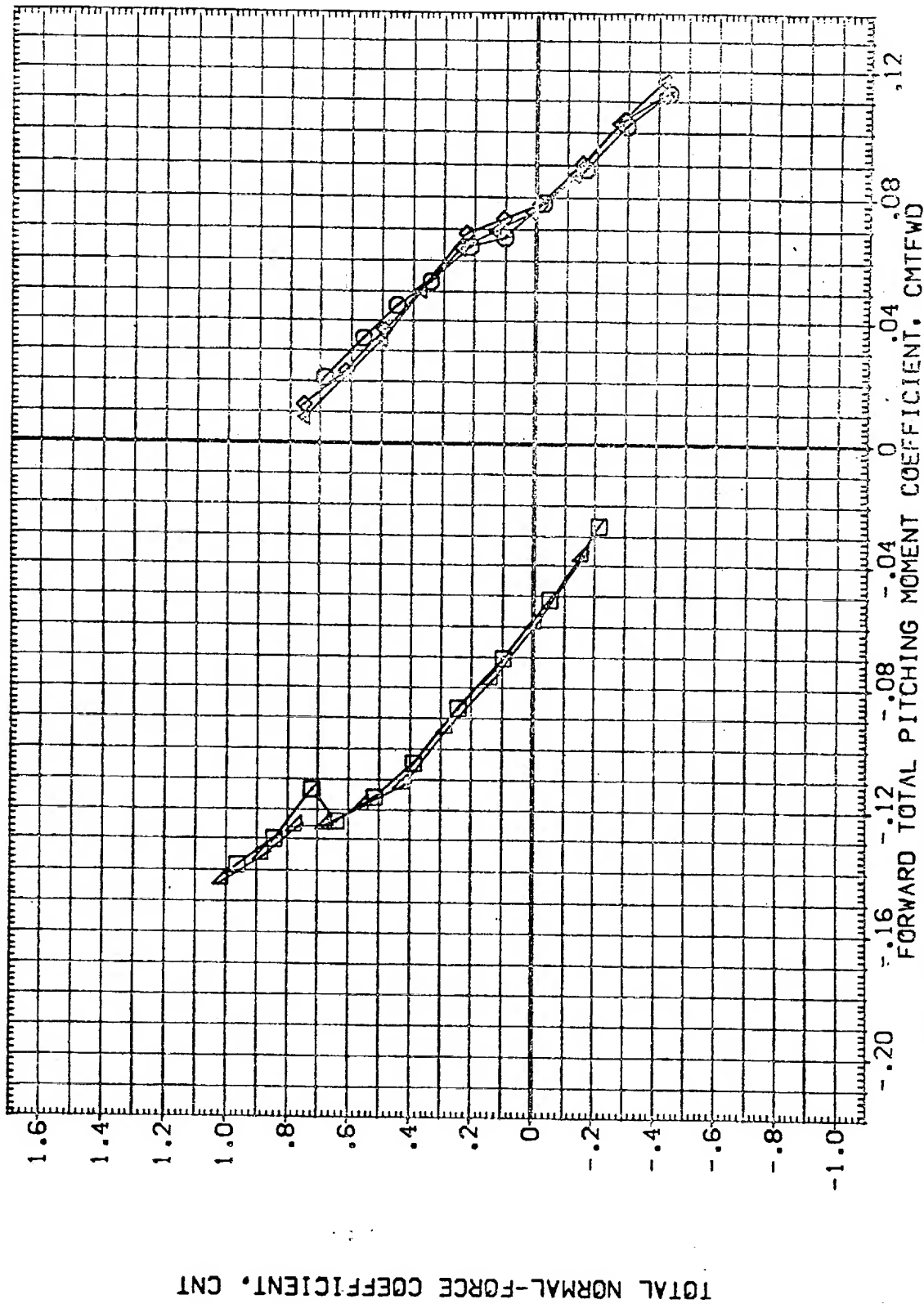
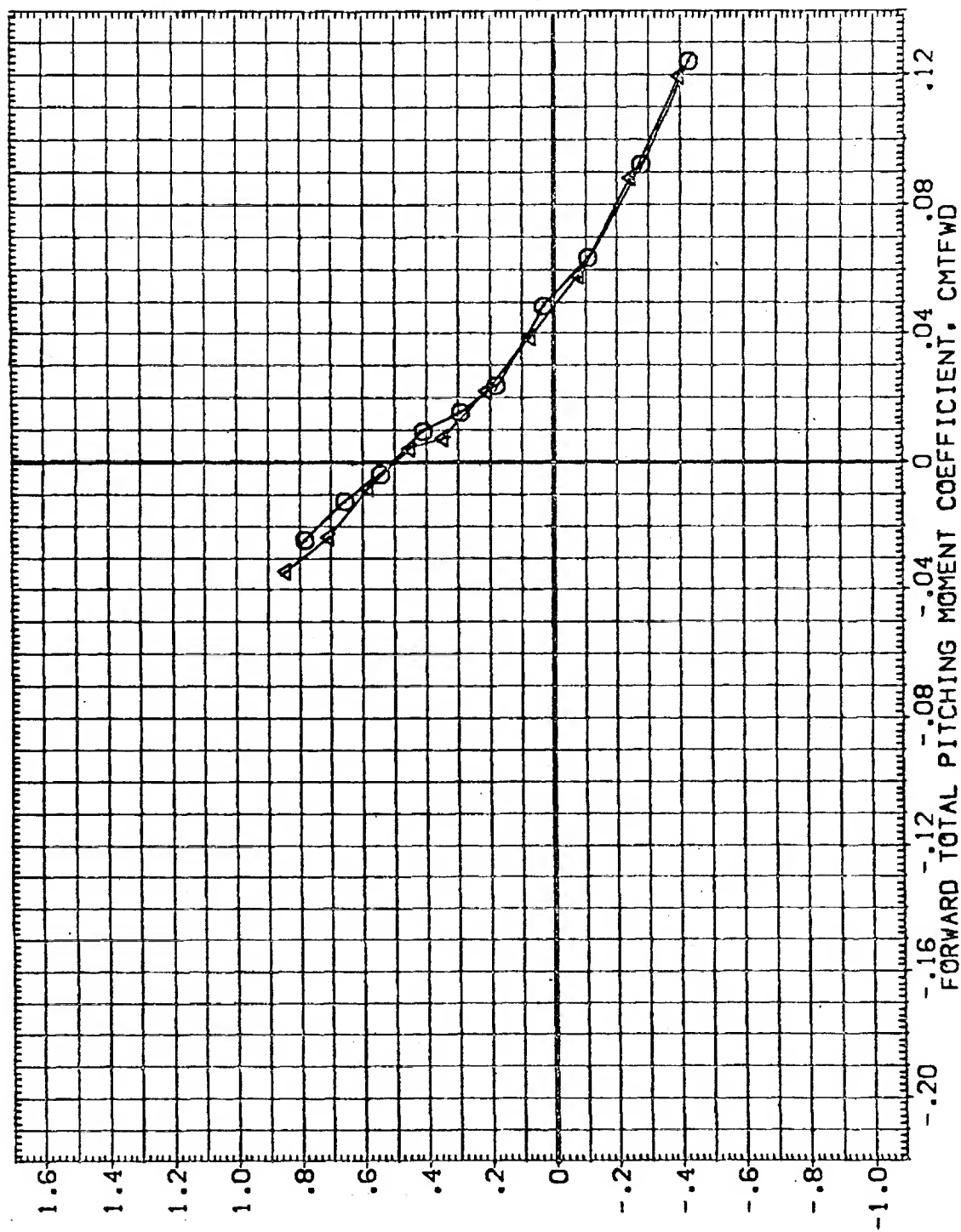


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 OAS9 DA111A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 OAS9 DA111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CnT

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER003}	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
{GER009}	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
{GER012}	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
{GER013}	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

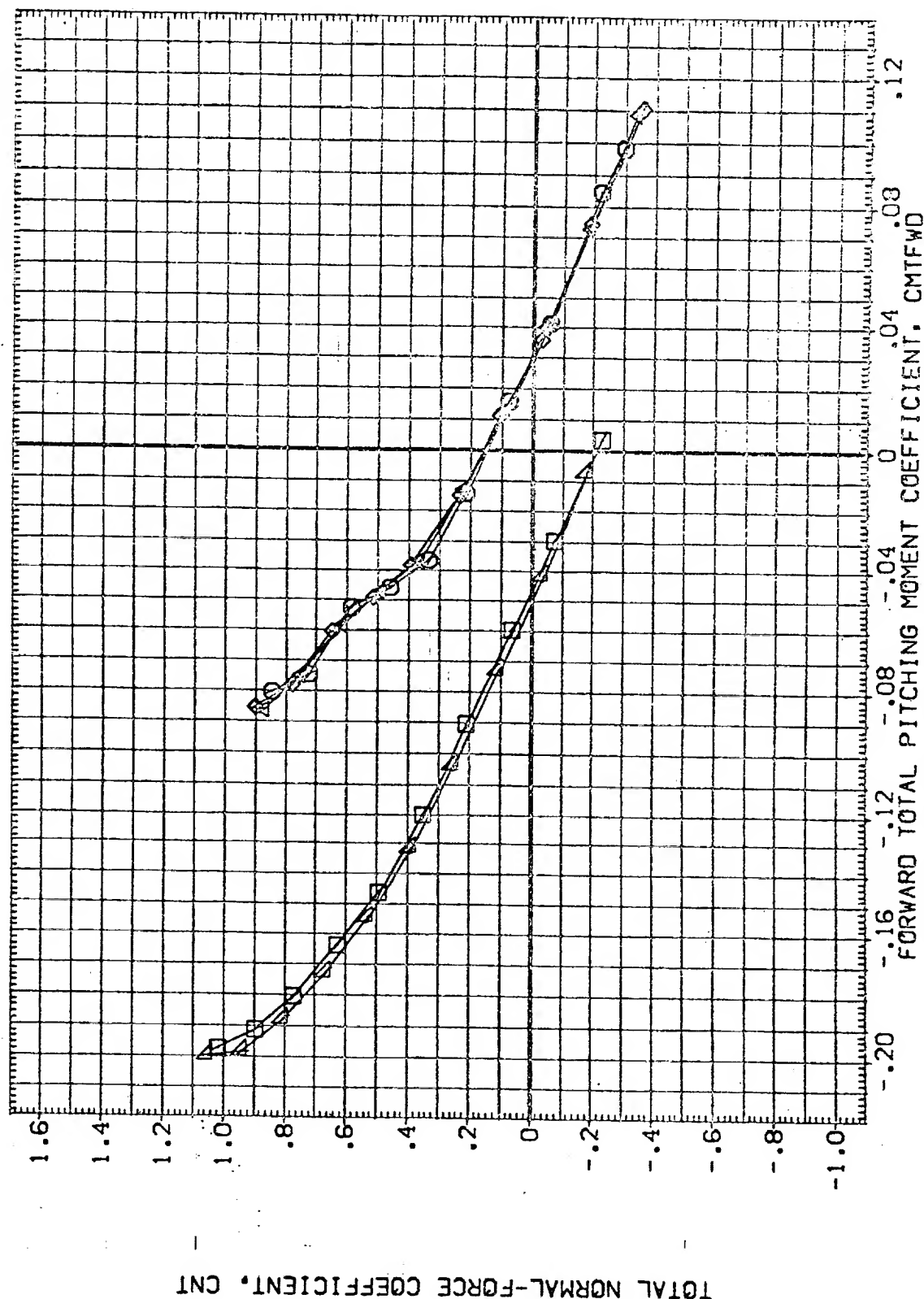


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	90° LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DJM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	ZMRP -.0000 IN.
					SCALE .0150

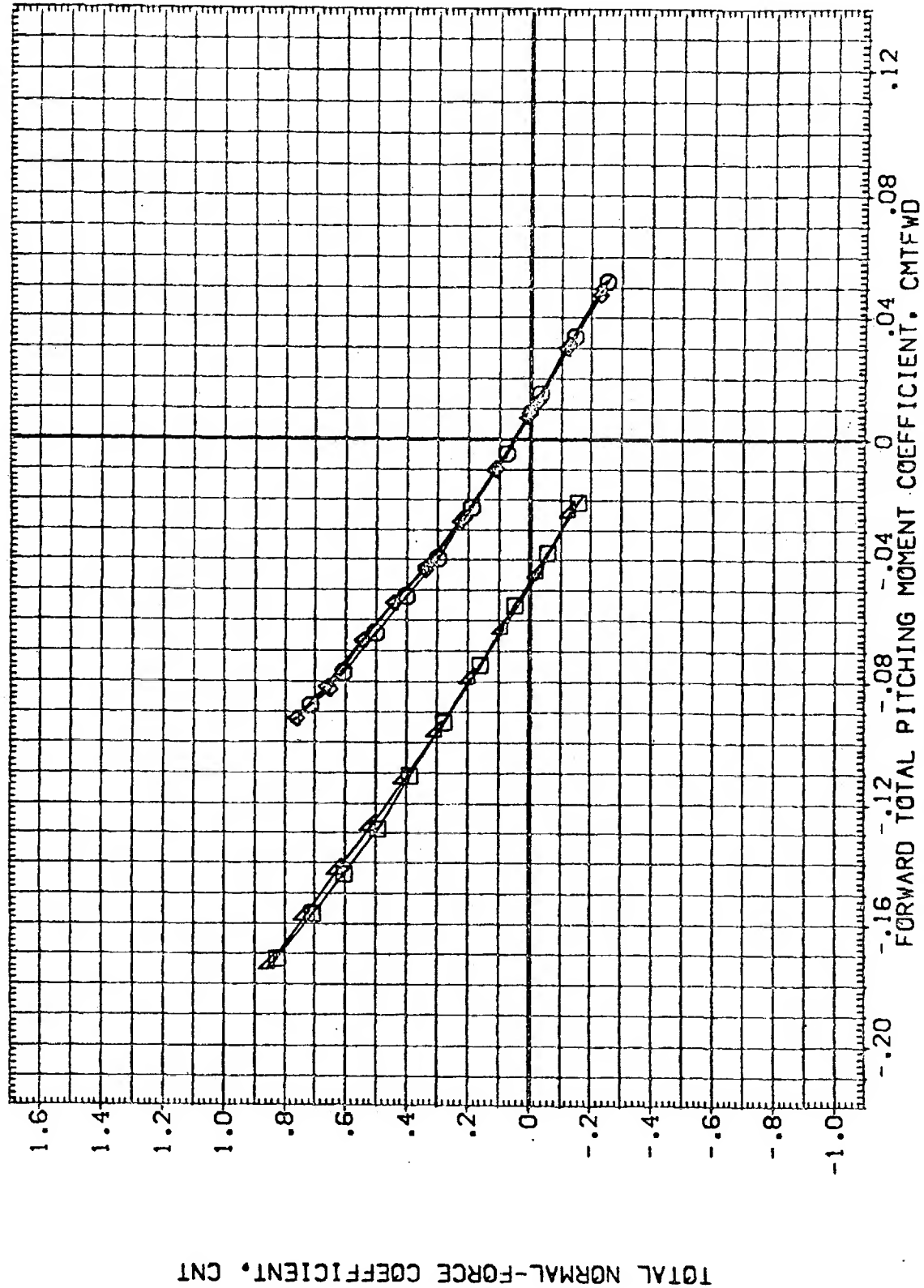


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	EOF LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

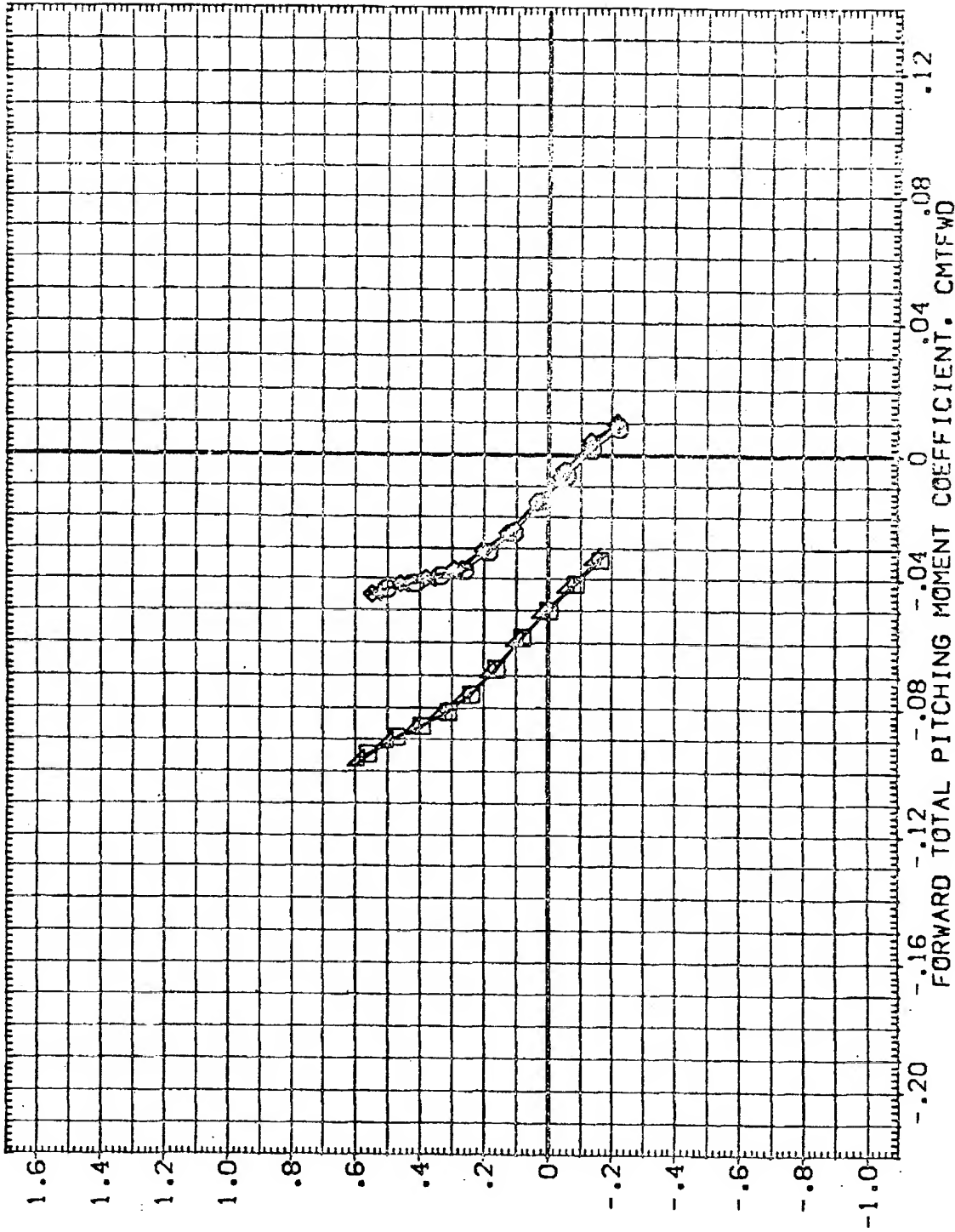


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON 30FLAP

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 .000 -11.700

(GER003) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 .000 -11.700

(GER009) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT .000 .000 -11.700

(GER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 -11.700

(GER013) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

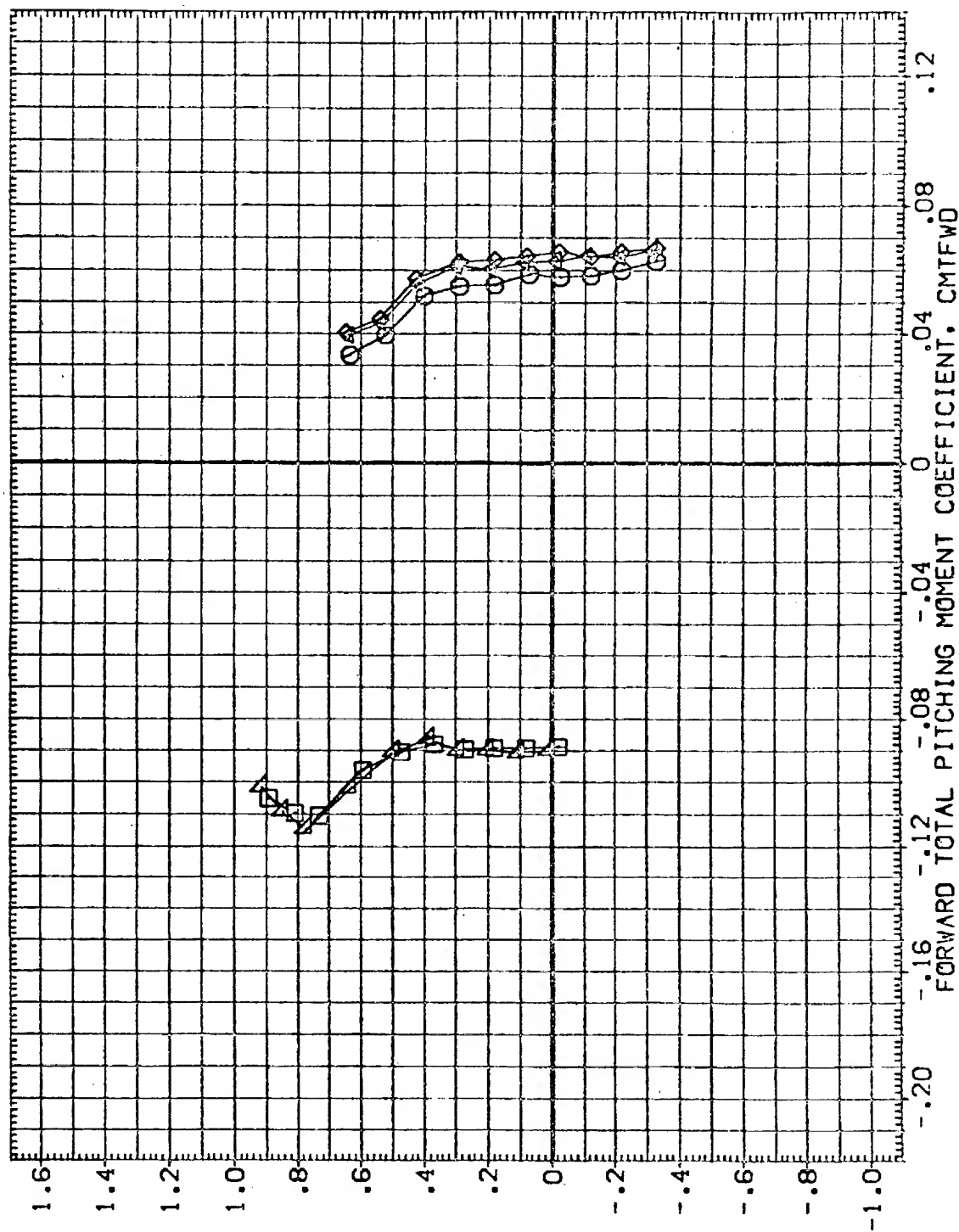


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QA59 QA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 QA59 QA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QA59 QA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QA59 QA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

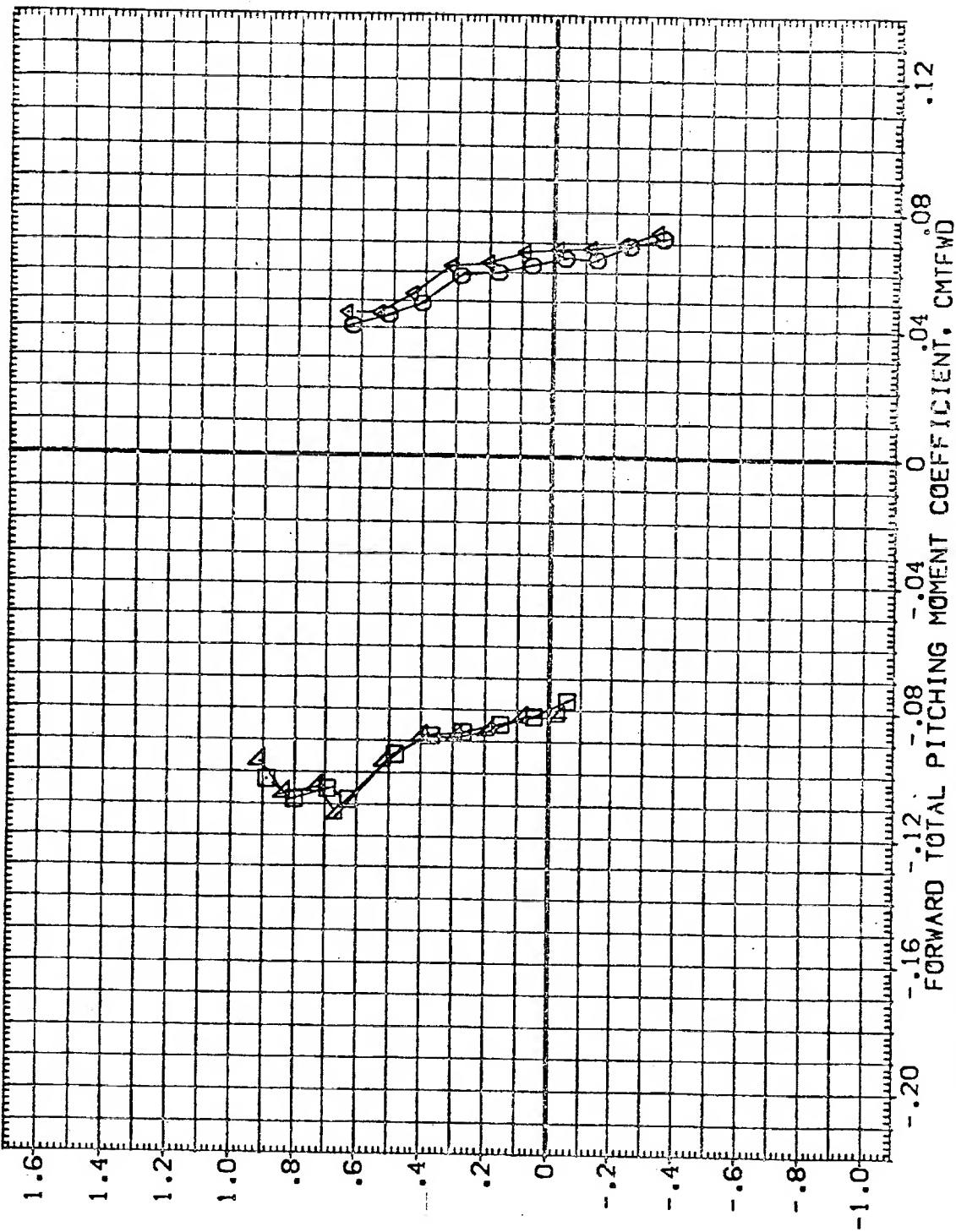


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

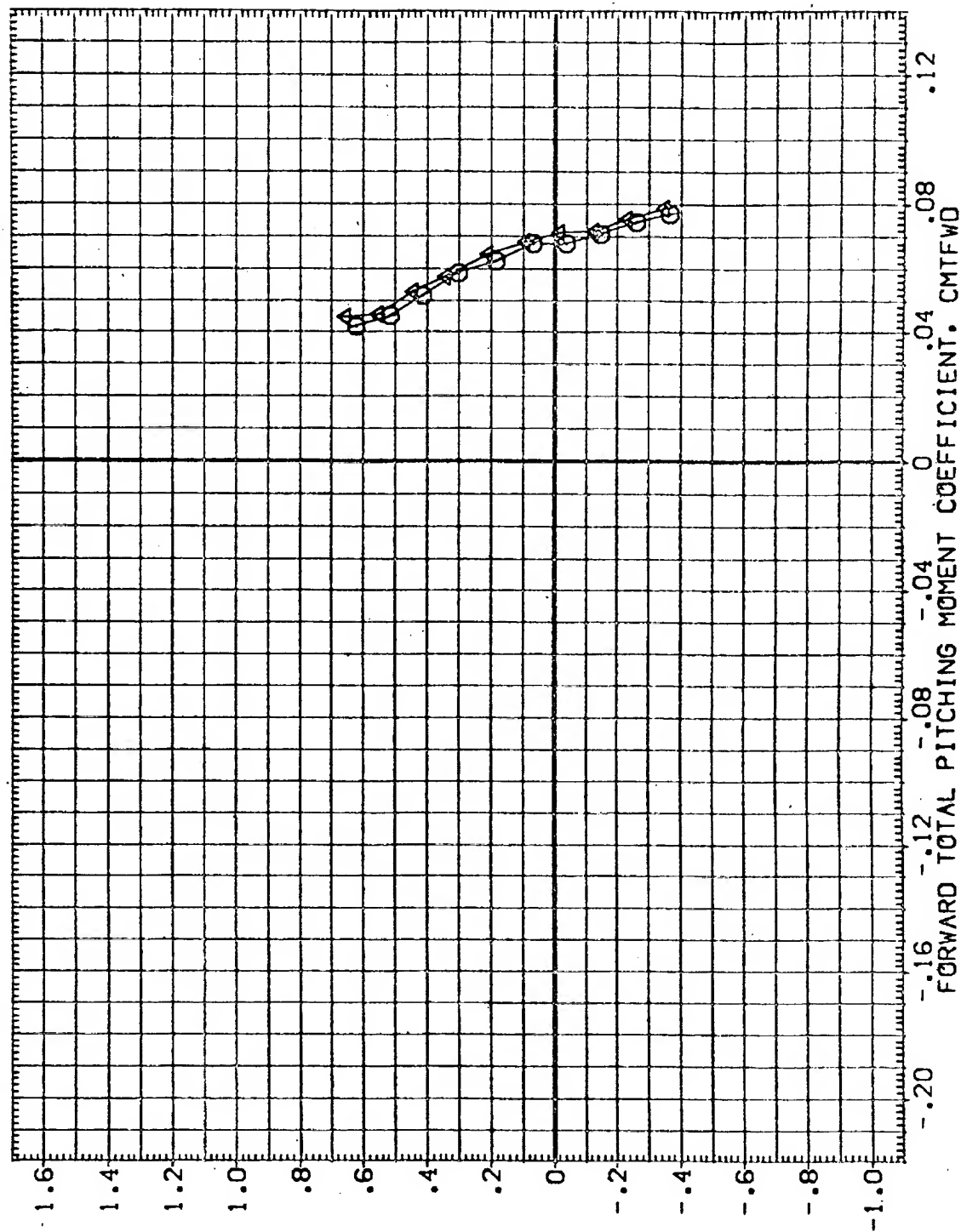


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

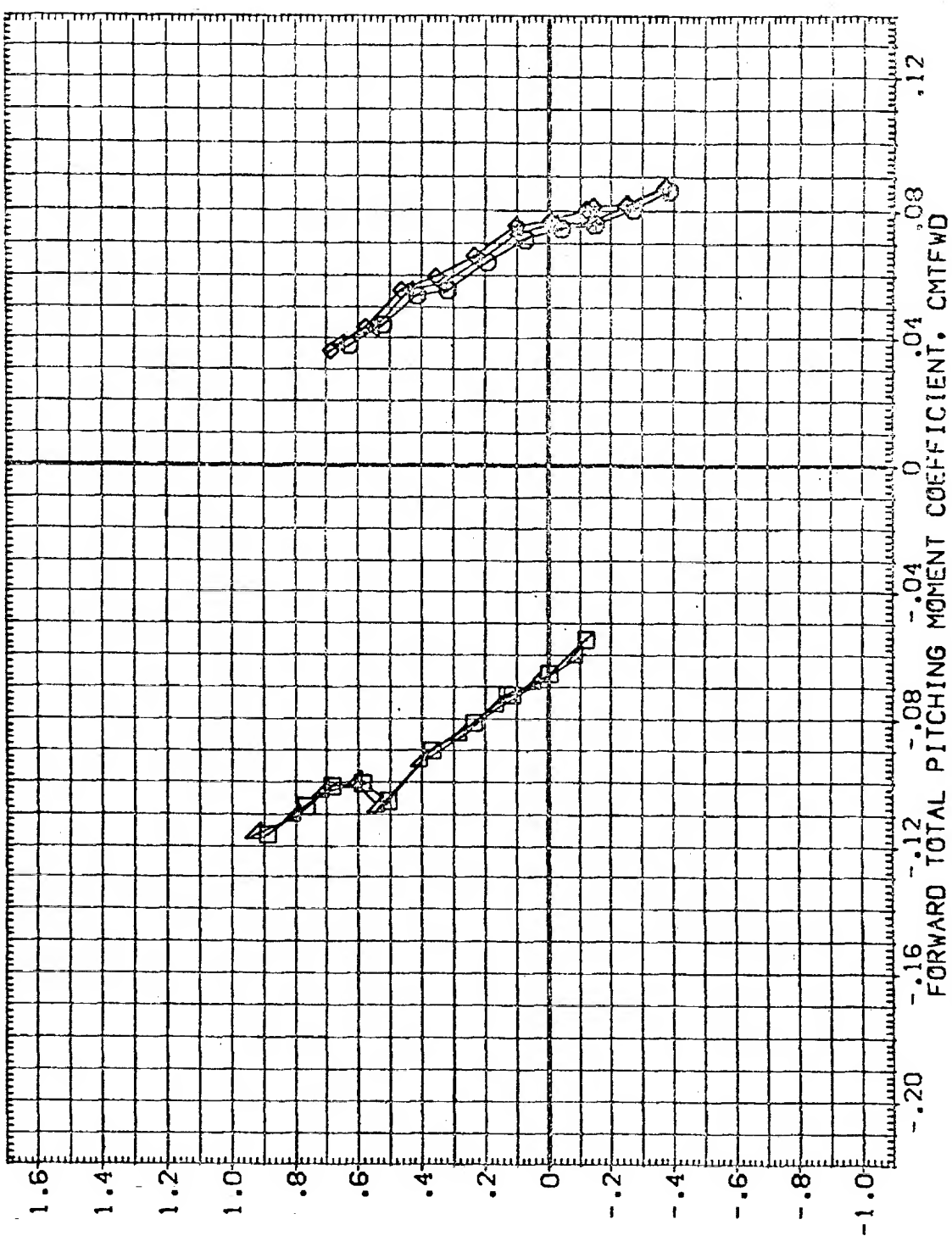


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 OAS9 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 OA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

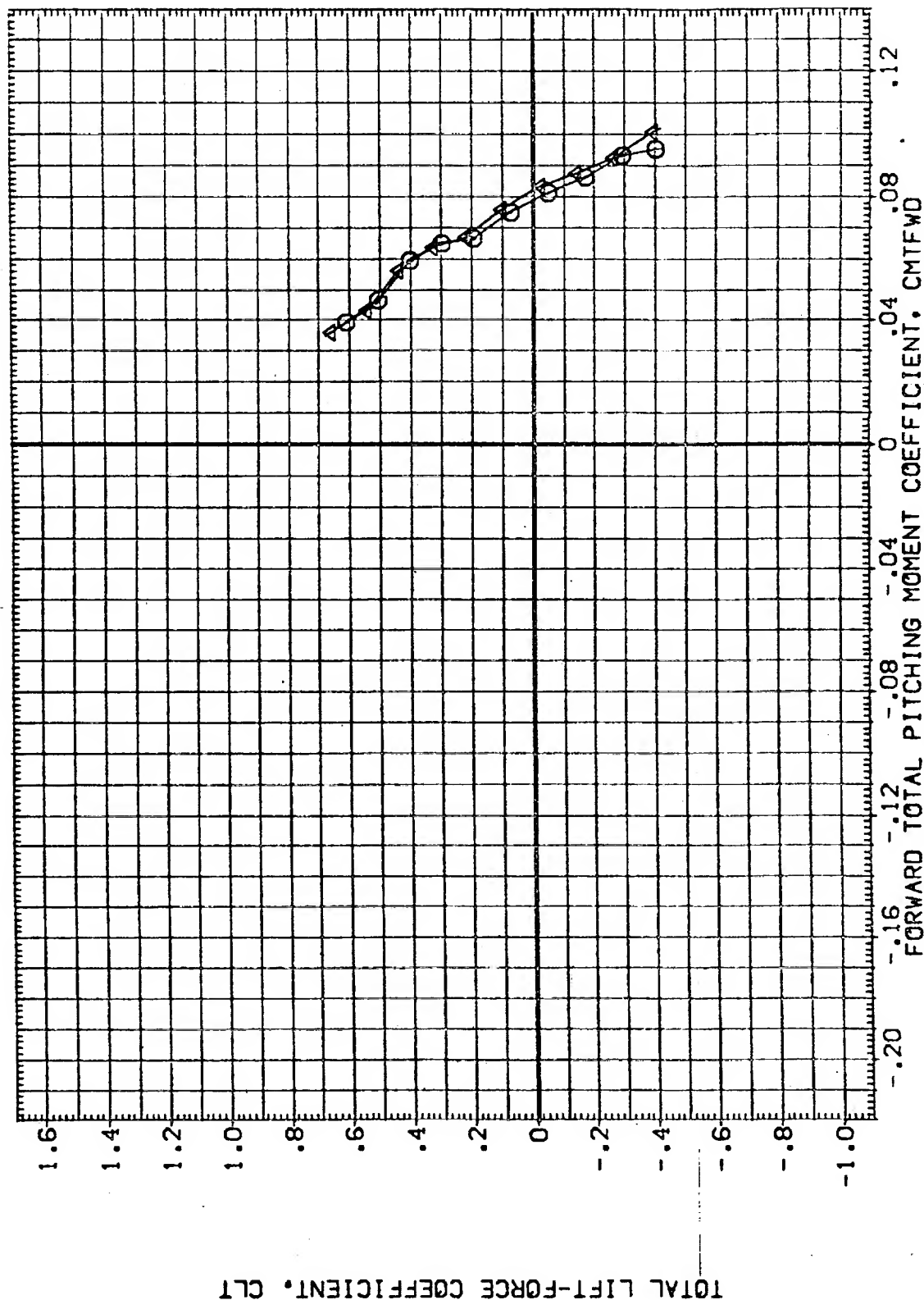


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DASS9 DAI1A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 DASS9 DAI1A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 DASS9 DAI1A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 DASS9 DAI1A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 DASS9 DAI1A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

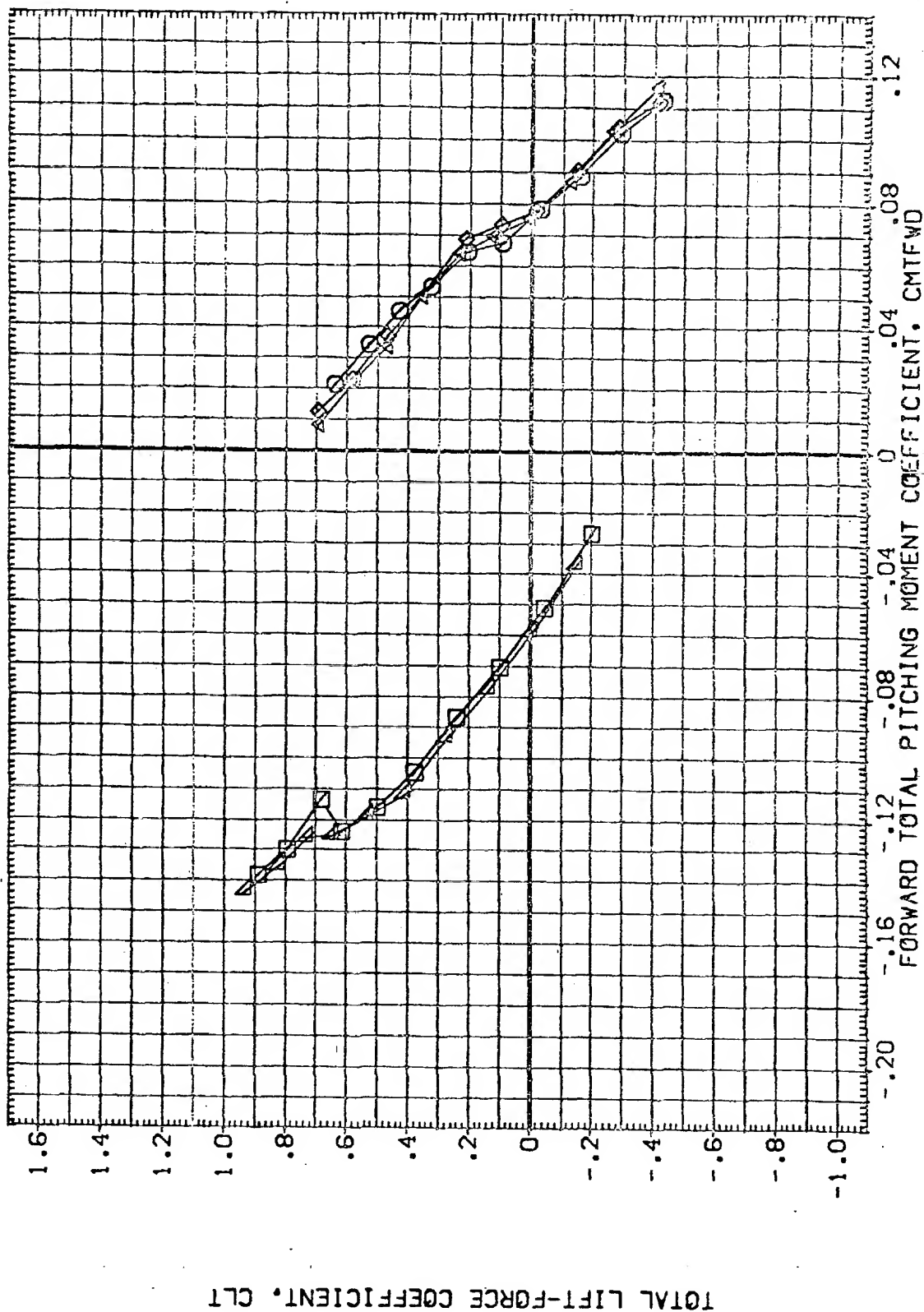


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 DA59 0A11A-(N24 R5 V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	.000	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DA59 0A11A-(R5 V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

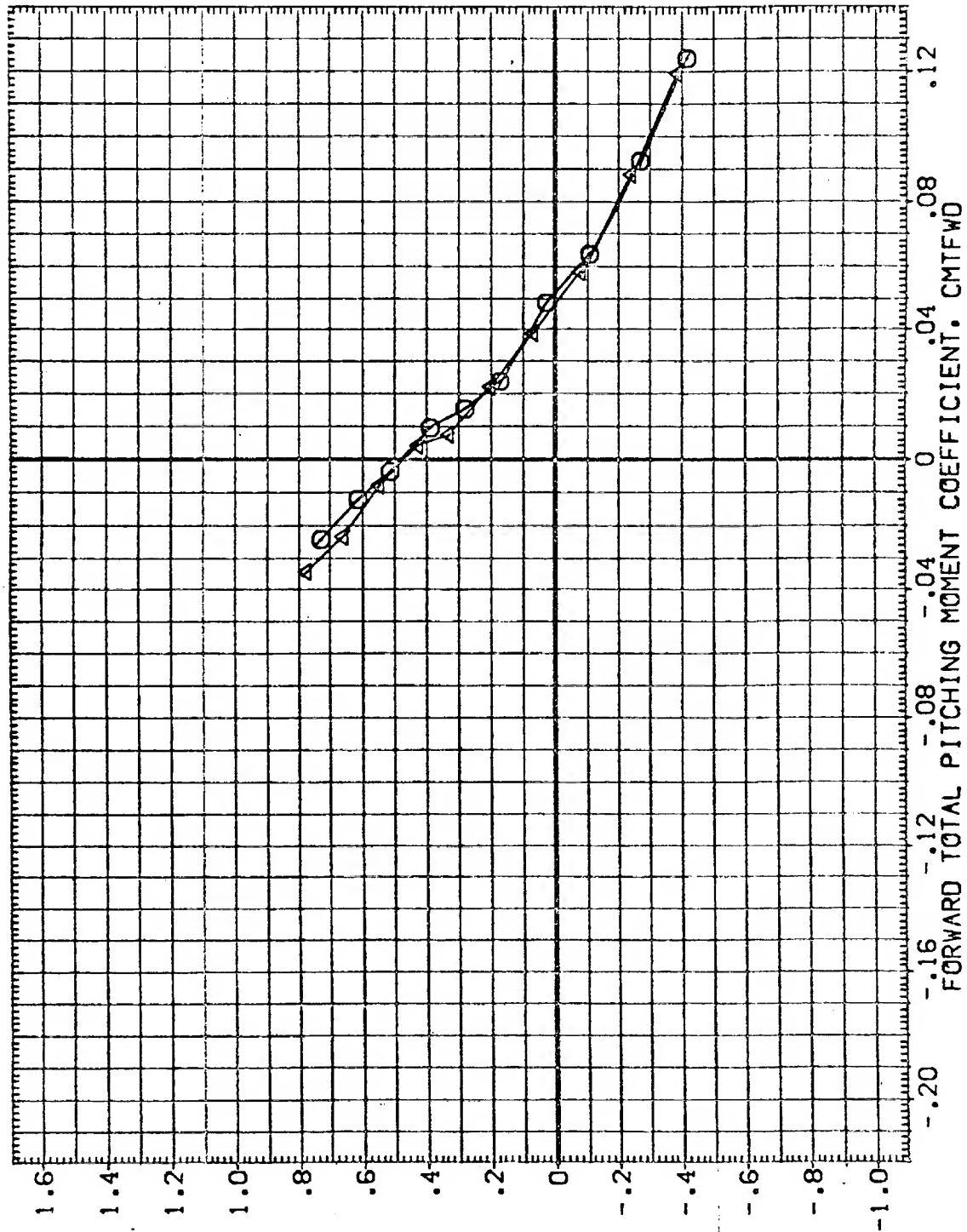


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	-BETA	ELEVON	BUFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

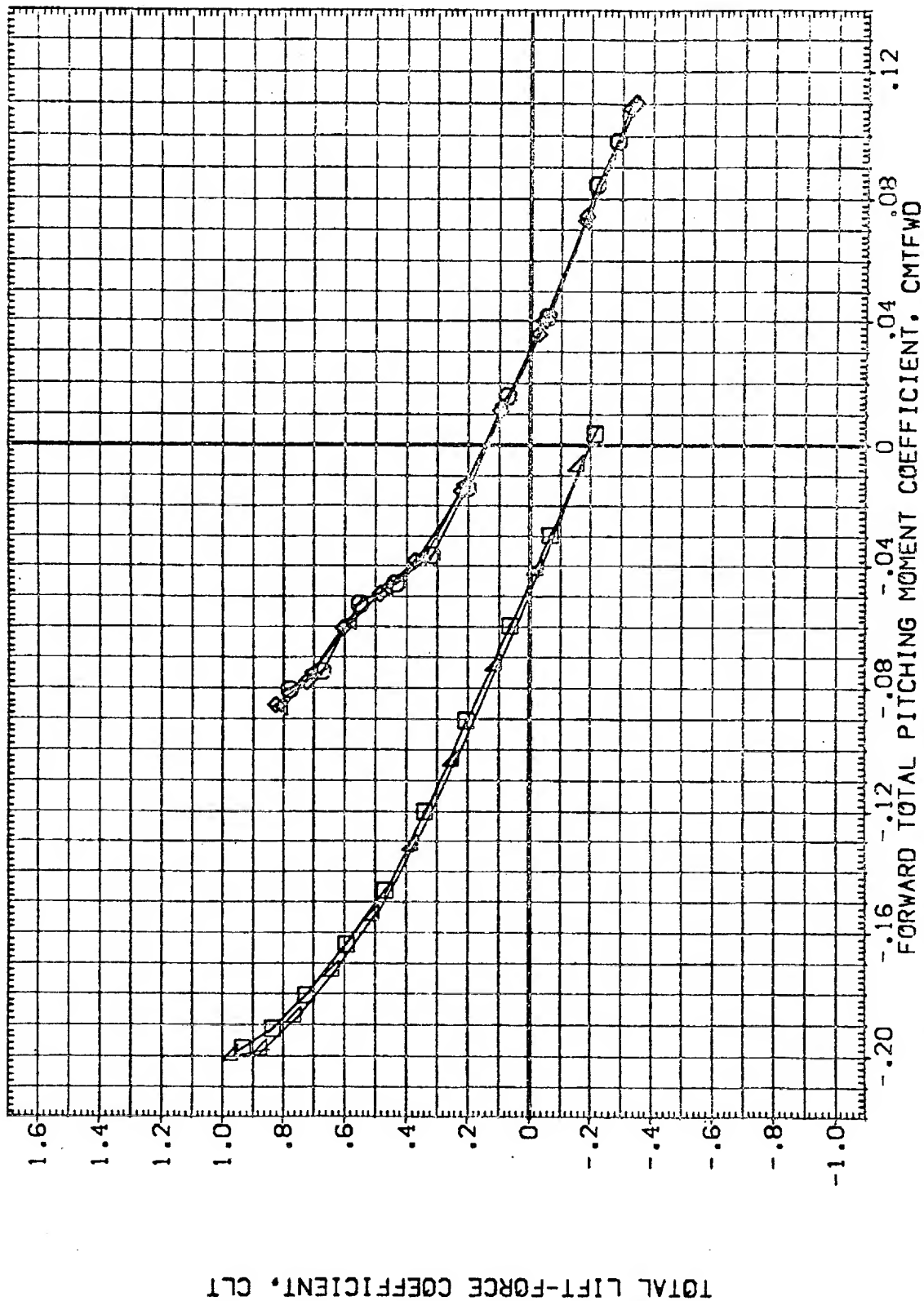


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

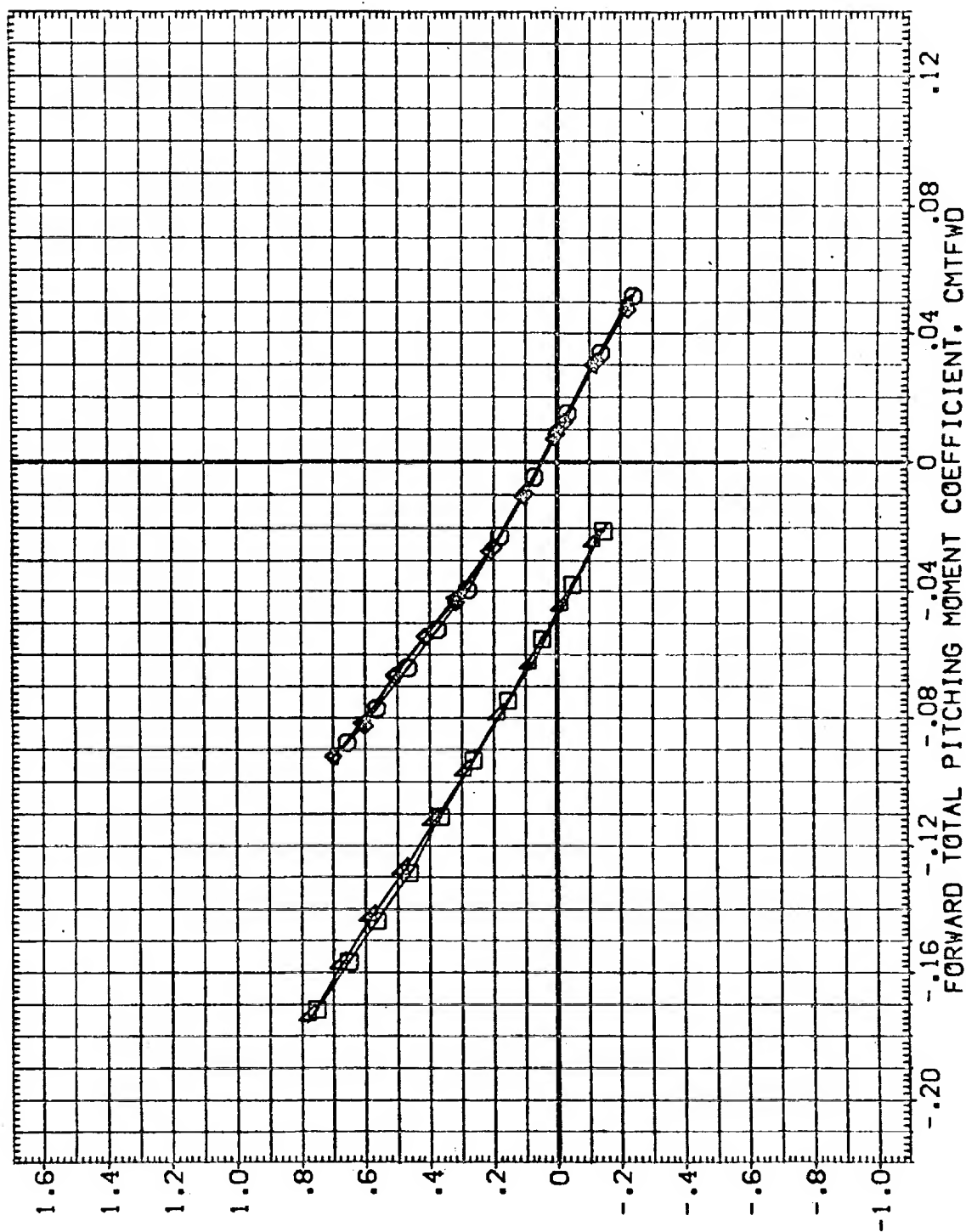





FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS


(1)MACH = 1.50


DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)  ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING

(GER003)  ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING

(GER009)  ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT

(GER012)  ARC 66-709 0A59 0A11A-(RS V8)-STRUT

(GER013)  ARC 66-709 0A59 0A11A-(RS V8)-STRUT

BETA

ELEVON

BOFLAP

.000

.000

15.000

-11.700

.000

-11.700

.000

-11.700

.000

-11.700

.000

15.000

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

YMRP

ZMRP

SCALE

.6053

.5055

1.1710

12.6235

.0000

-.3750

.0150

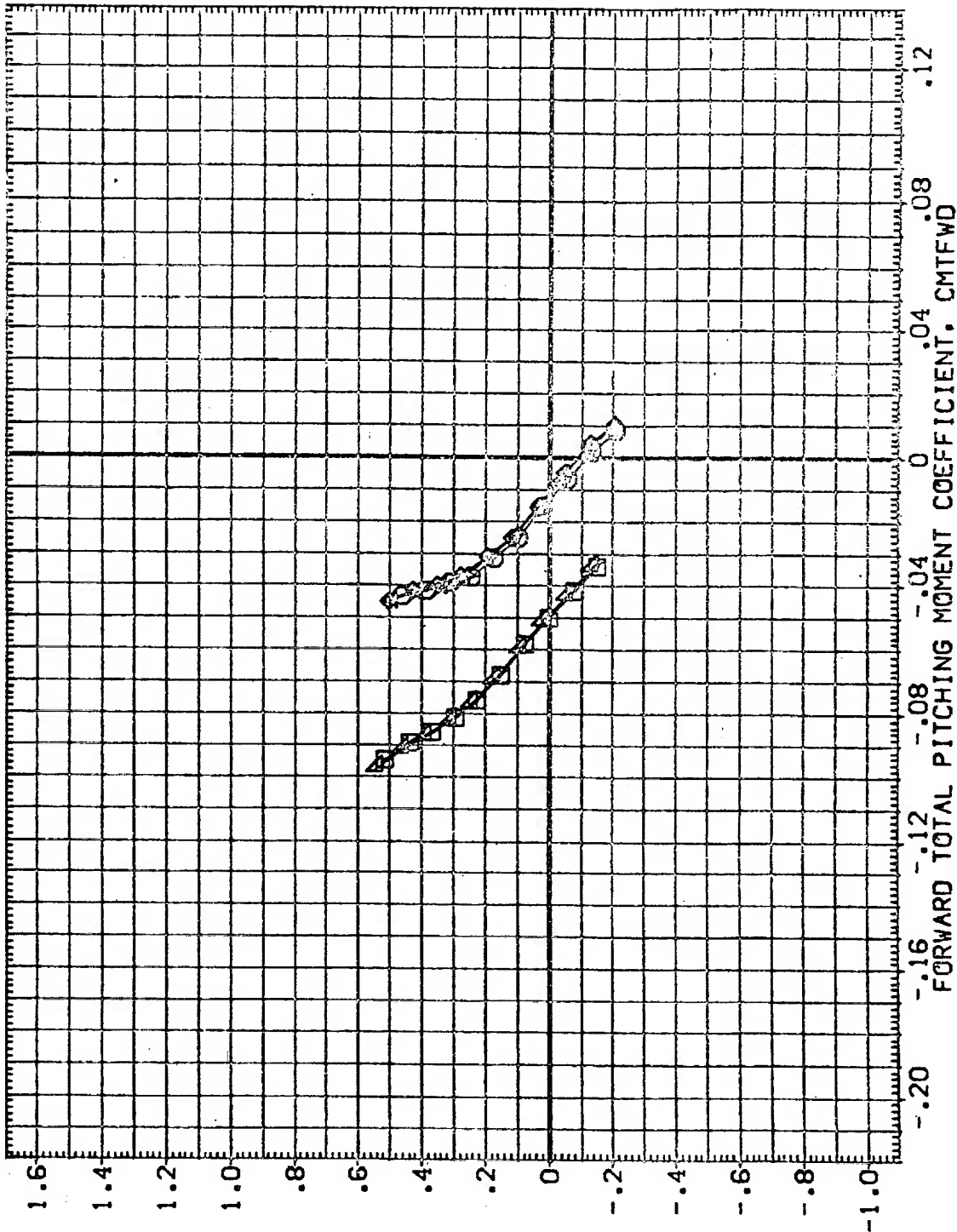


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

REFERENCE INFORMATION

SREF	.8053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6755	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000	BOFLAP
ELEVON	15.000	BOFLAP
ELEVON	.000	BOFLAP
ELEVON	.000	BOFLAP
ELEVON	15.000	BOFLAP

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24	RS	V81)+STRUT+DUM	STAG
ARC 66-709	0A59	0A11A-(N24	RS	V81)+STRUT+DUM	STAG
ARC 66-709	0A59	0A11A-(N24	RS	V81)+STRUT	
ARC 66-709	0A59	0A11A-(RS	V81)+STRUT		

DATA SET SYMBOL

(GER001)	□
(GER003)	○
(GER009)	△
(GER012)	◇
(GER013)	▽

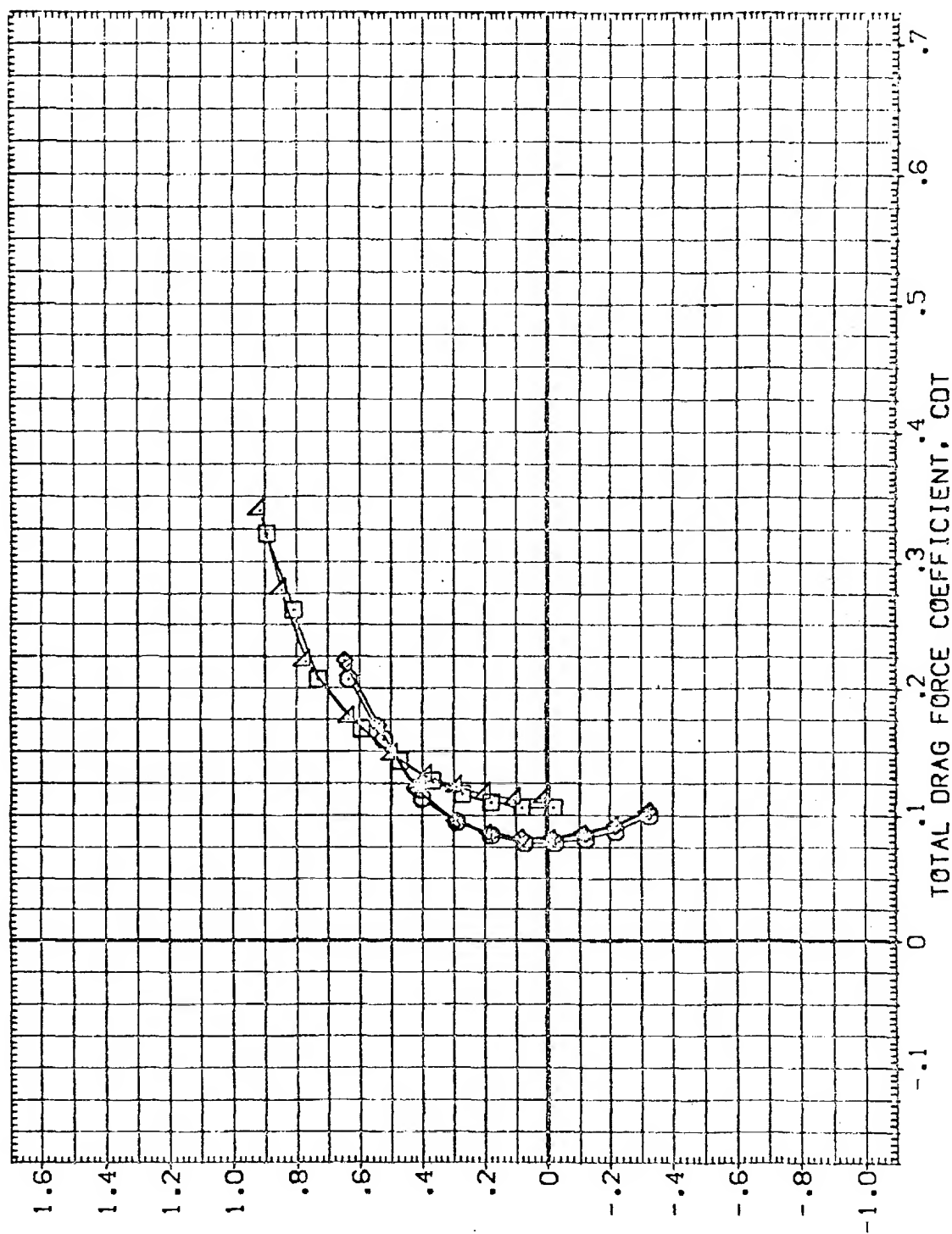


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING .000 .000 -11.700

(GER003) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING .000 15.000 -11.700

(GER009) DATA NOT AVAILABLE .000 .000 -11.700

(GER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 .000 -11.700

(GER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

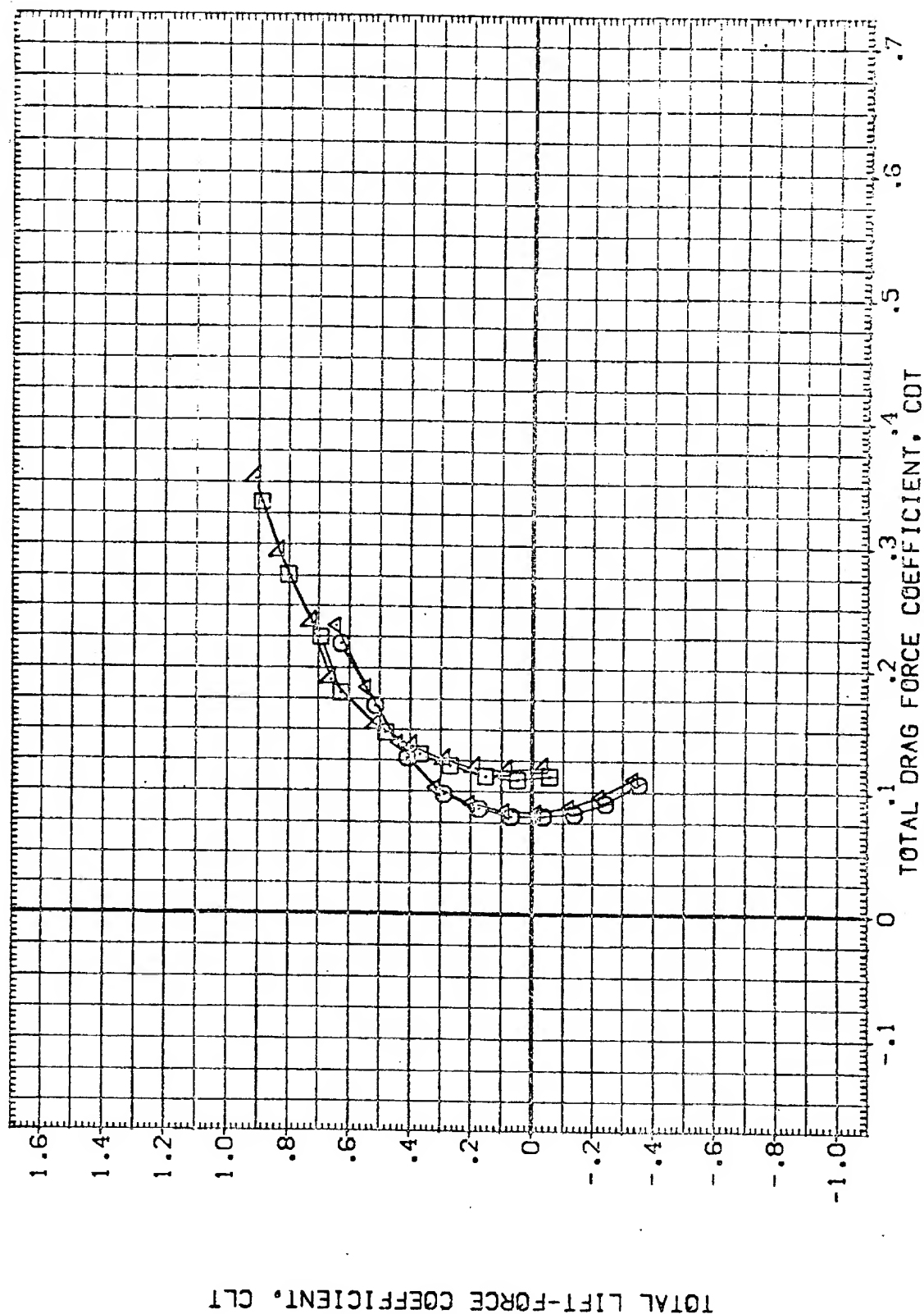


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG

(GER003) DATA NOT AVAILABLE

(GER009) DATA NOT AVAILABLE

(GER012) ARC 66-709 OAS9 DA11A-(RS V8)+STRUT

(GER013) DATA NOT AVAILABLE

BETA ELEVON GOLFAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .5053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

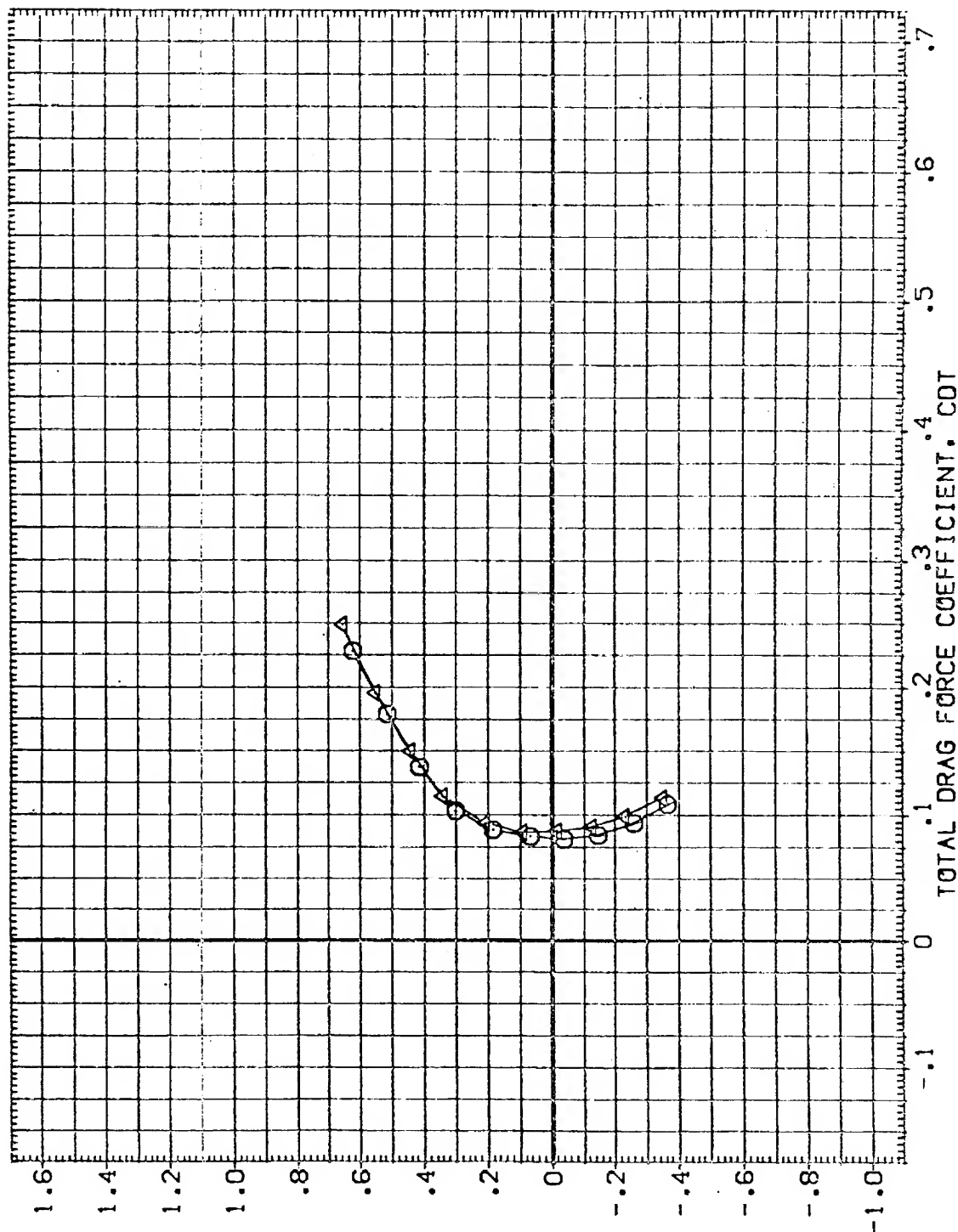


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STING

(GER003) ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STING

(GER009) ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT

(GER012) ARC 66-709 0A59 0A11A-(RS V81)*STRUT

(GER013) ARC 66-709 0A59 0A11A-(RS V81)*STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

15.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

15.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6265 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

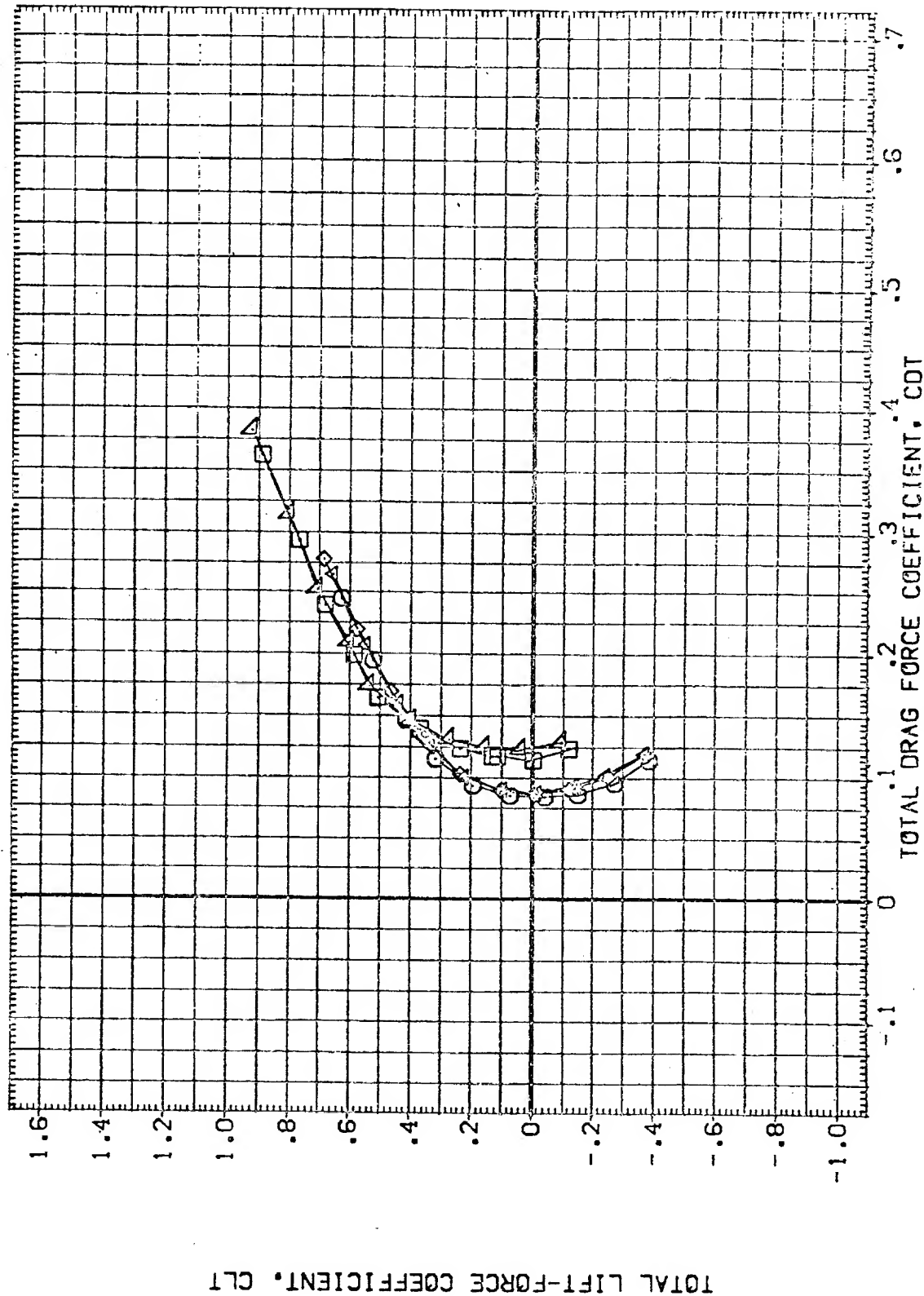


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

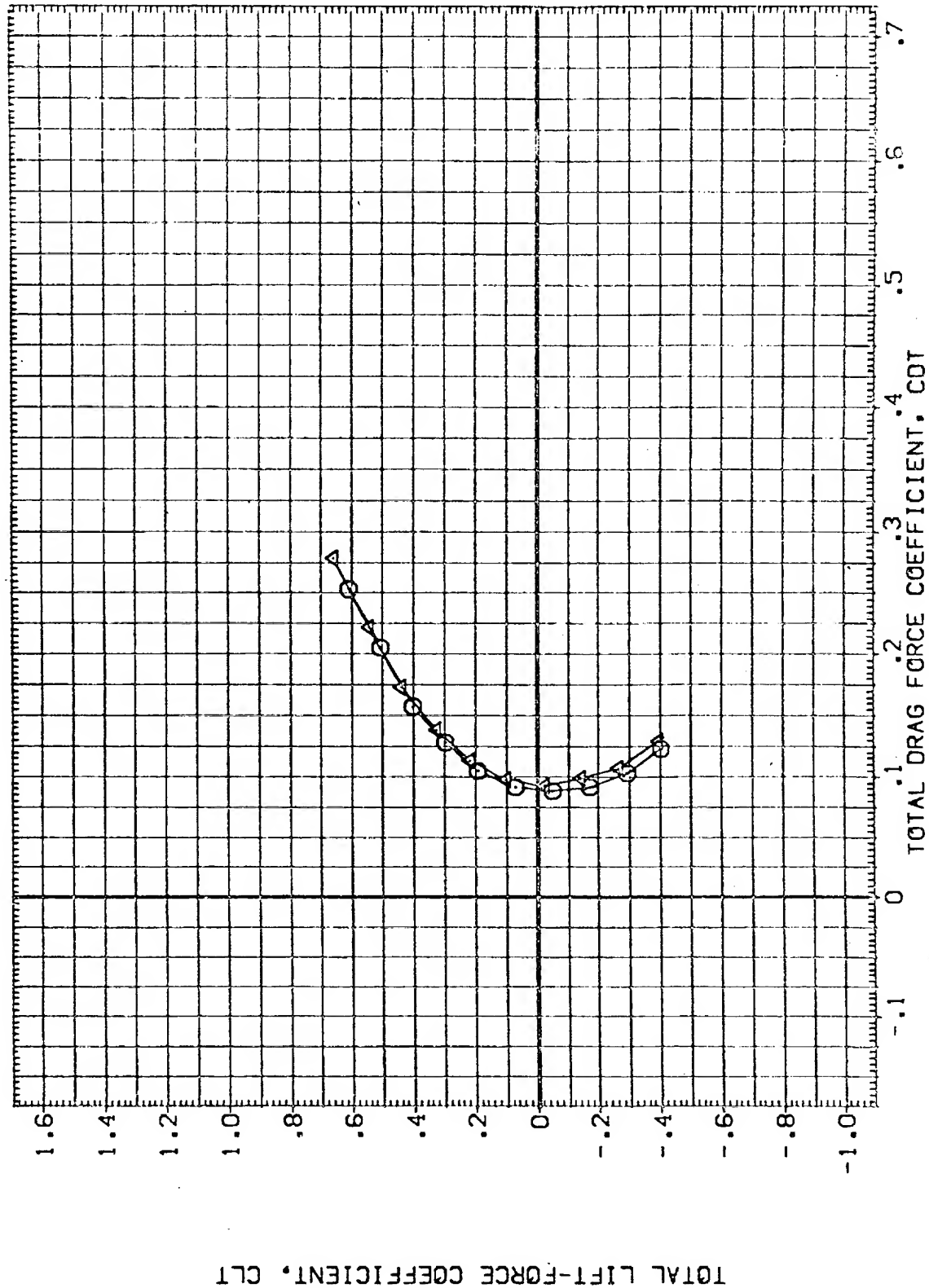


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .8053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

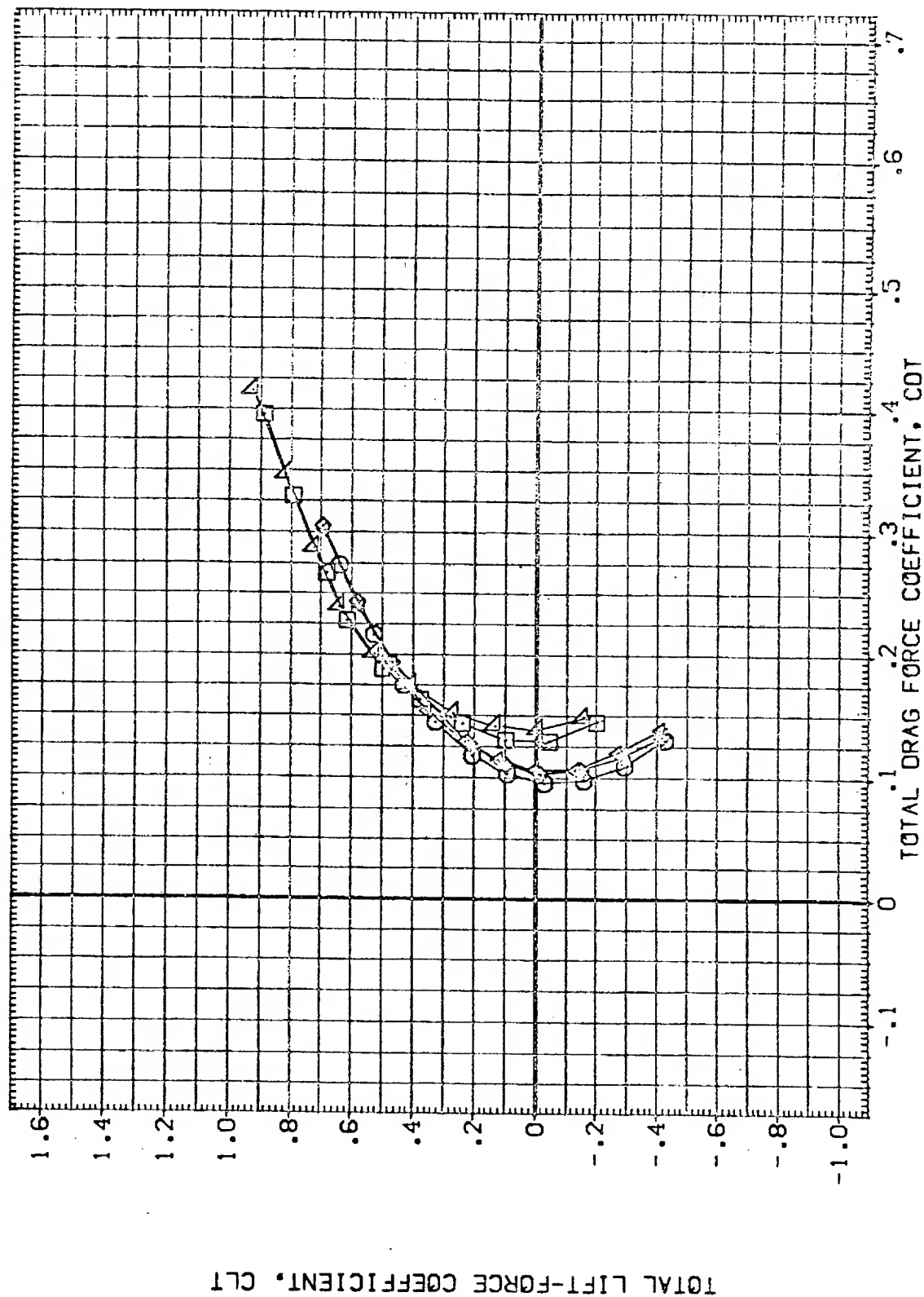


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 OALIA-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 OALIA-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

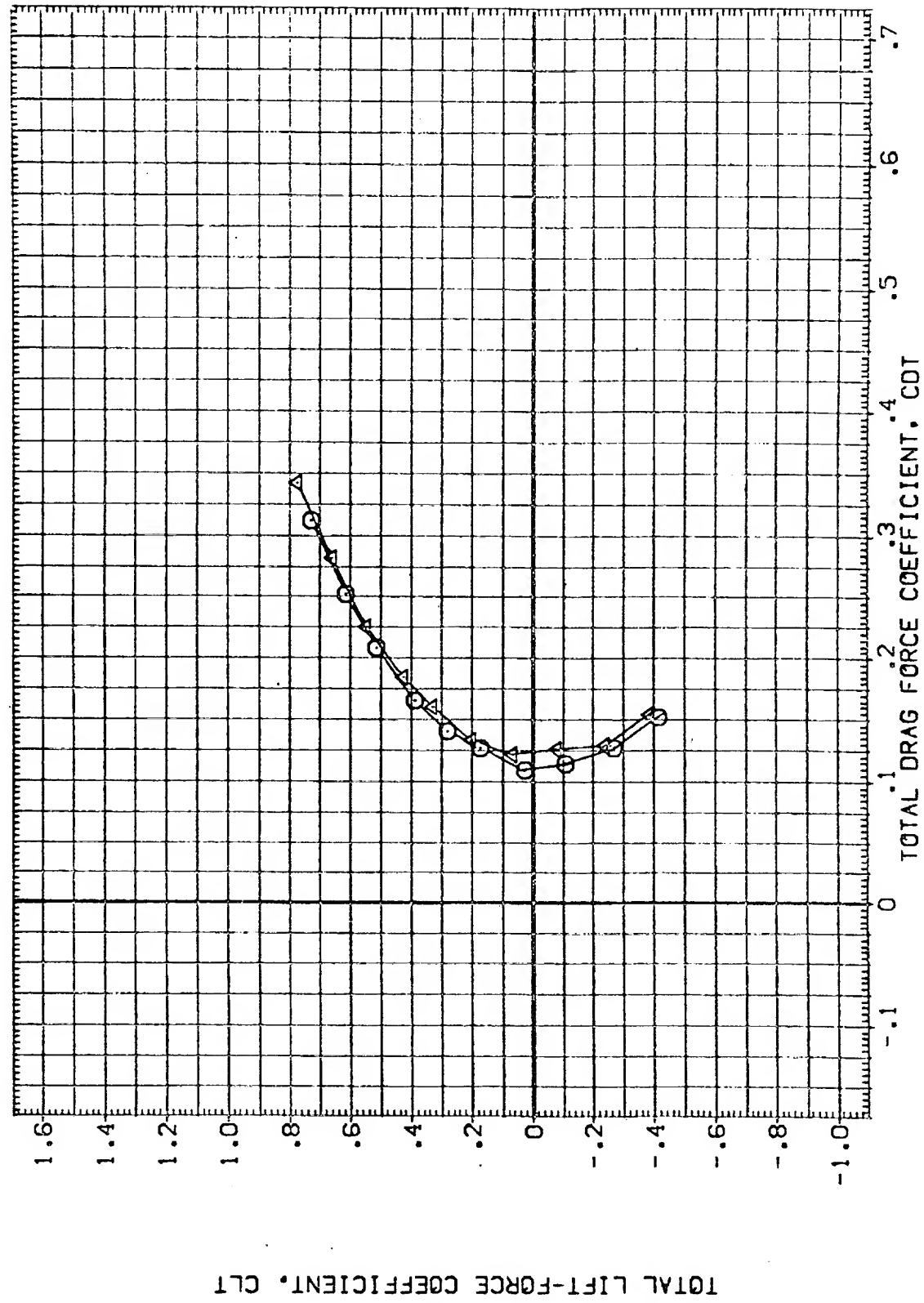


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.8255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

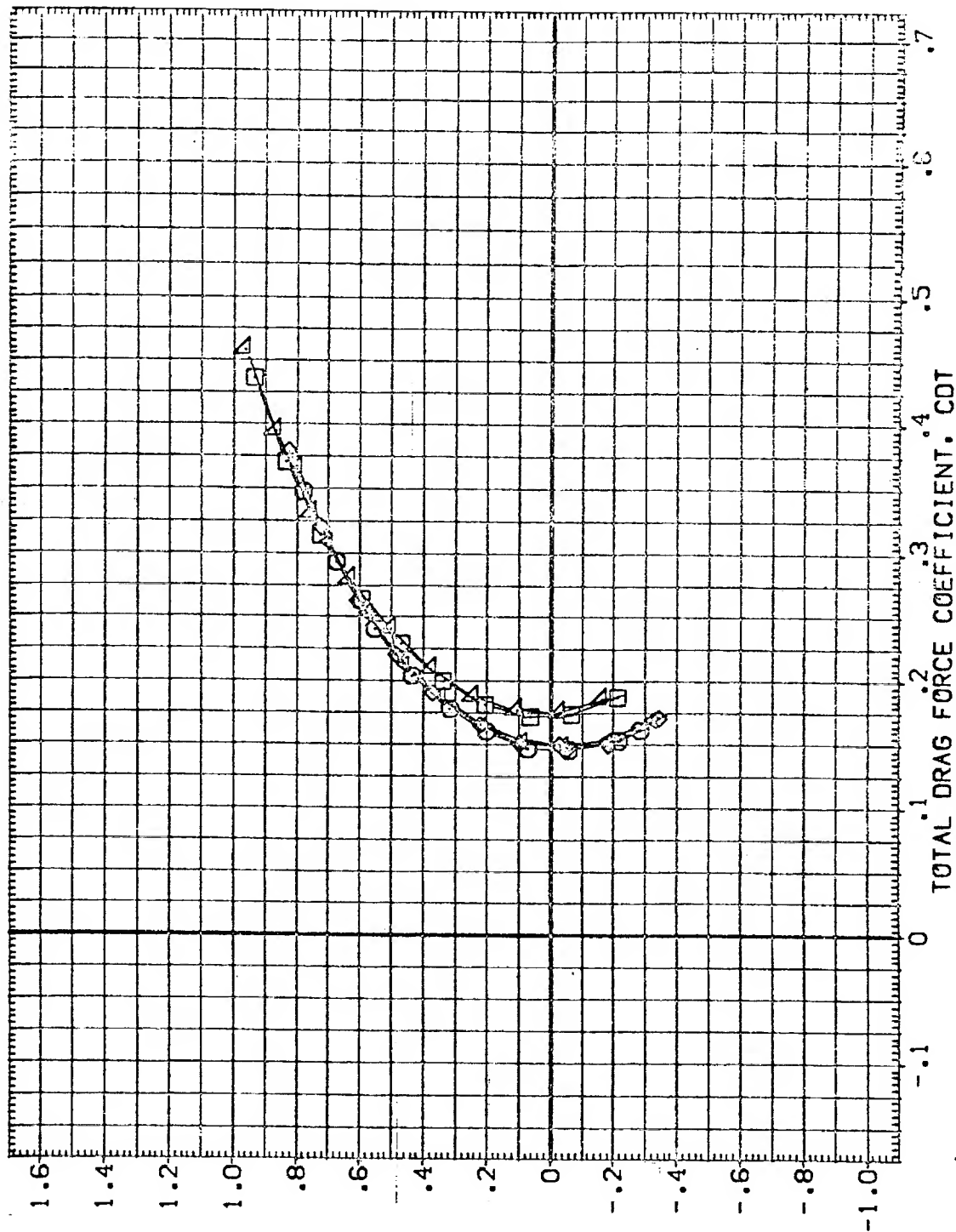


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 Q111A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER003)	ARC 66-709 QAS9 Q111A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QAS9 Q111A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 Q111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER013)	ARC 66-709 QAS9 Q111A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

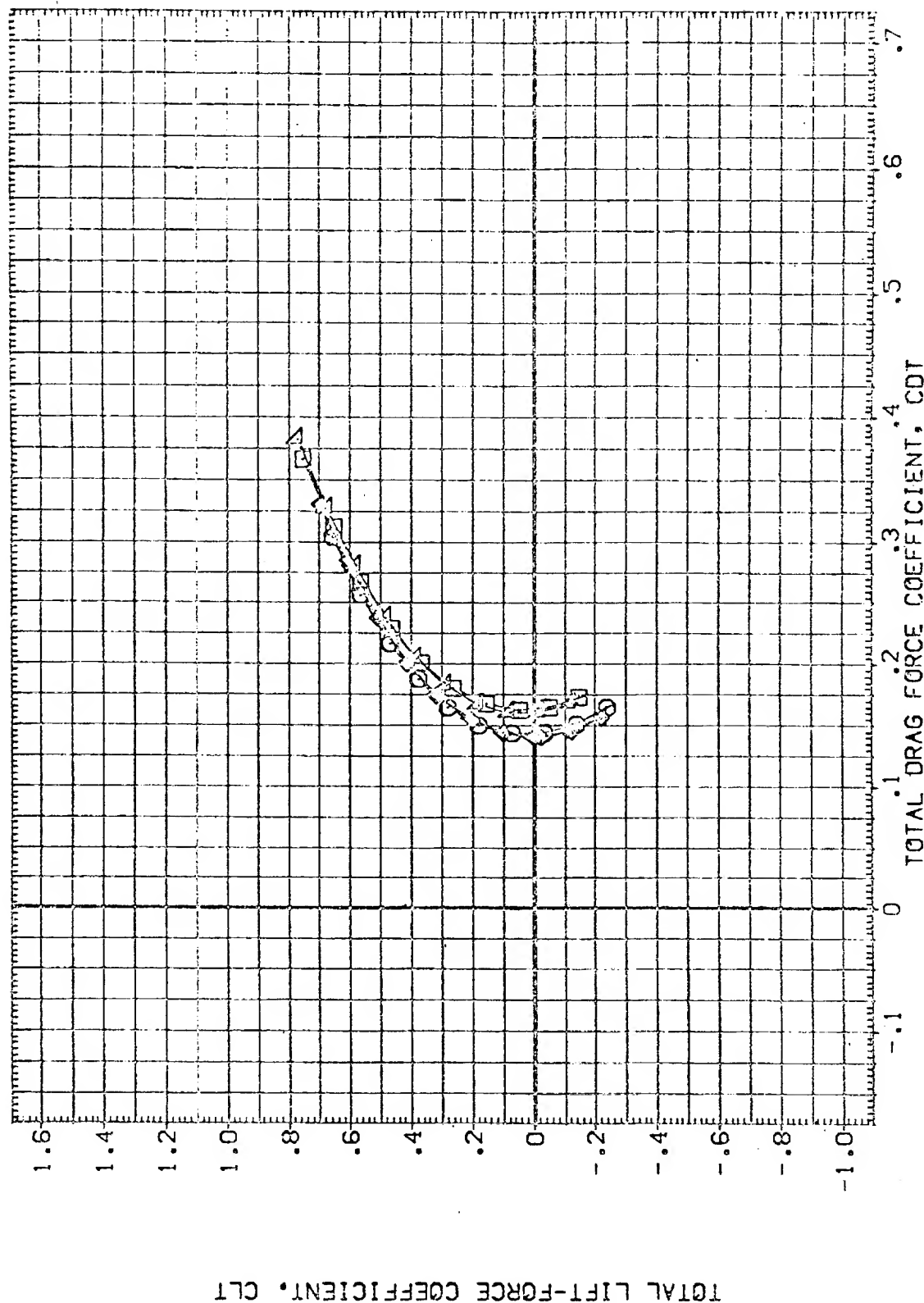


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	REFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

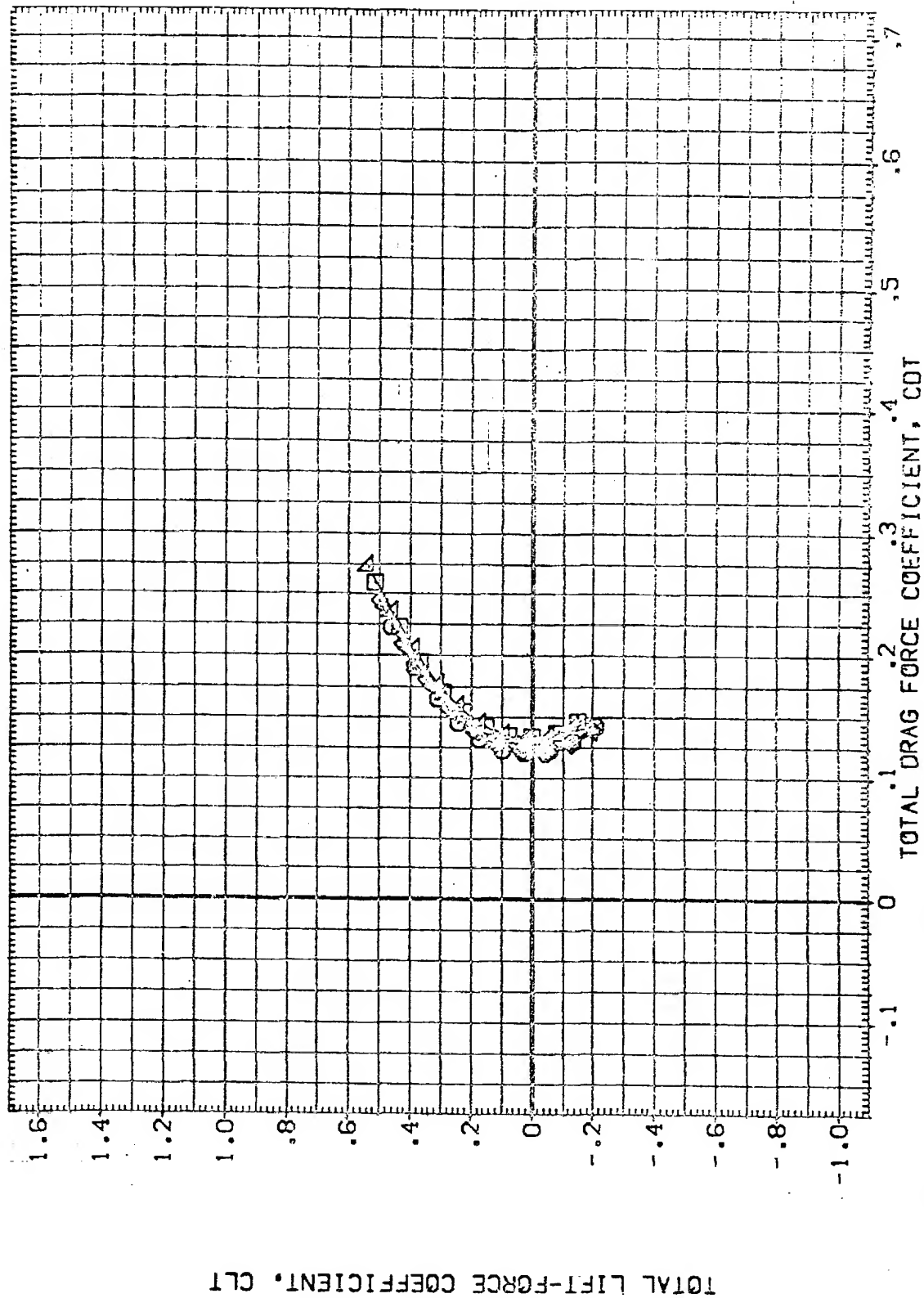


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DELTA	ELEVON	BOXLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

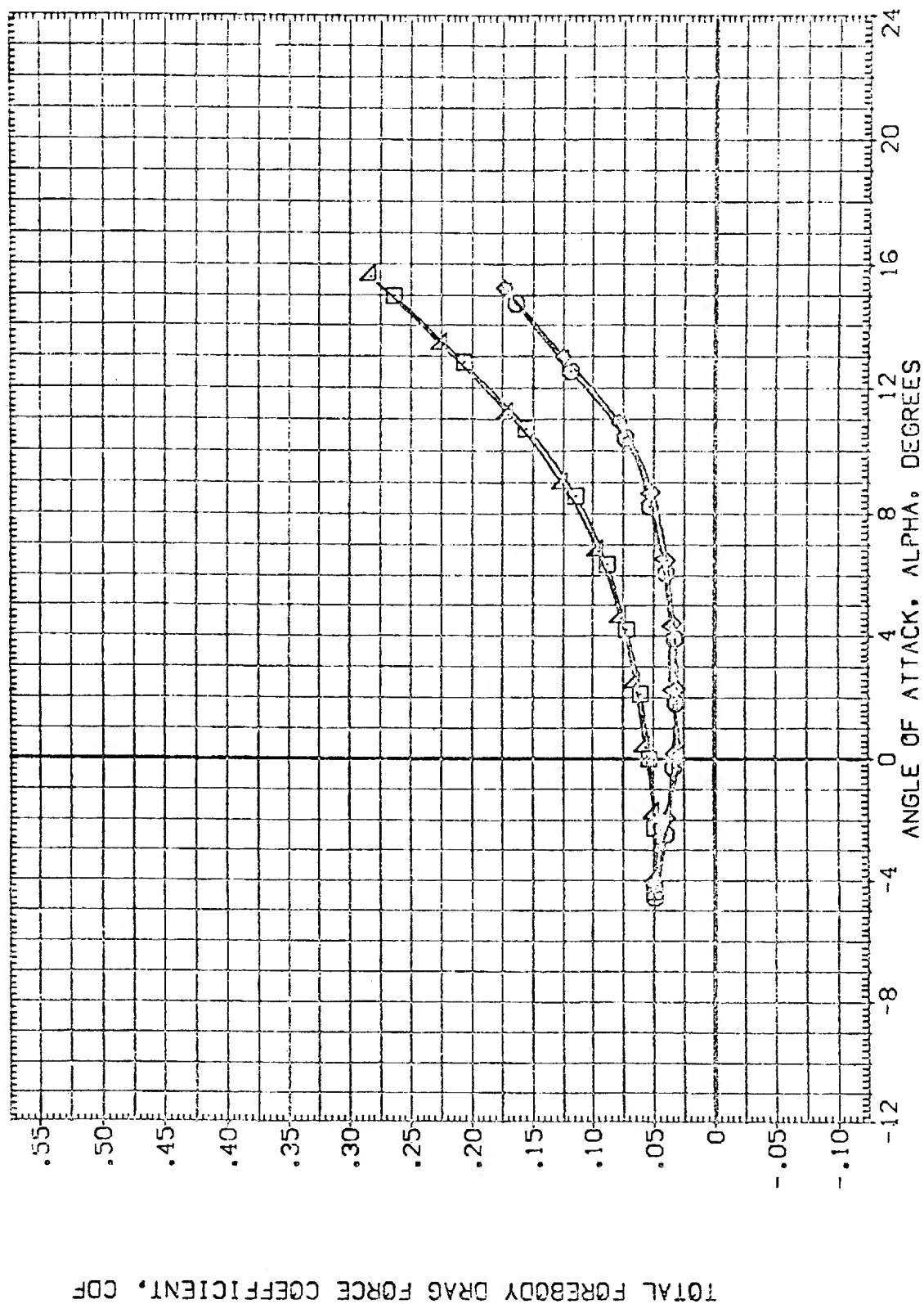


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

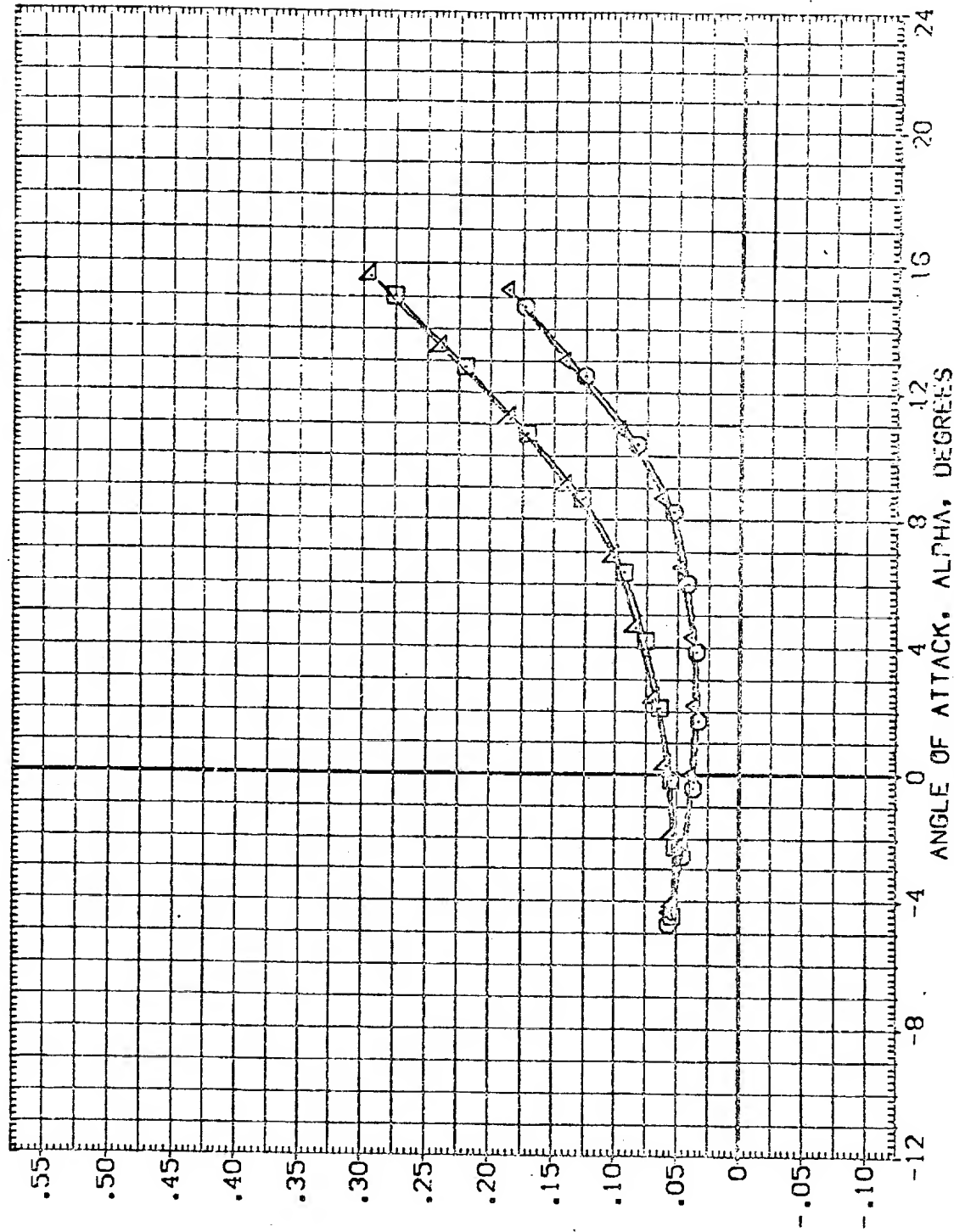


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(GER001)	ARC 66-703 QAS9 DALLA-(N24 R5 V81)-STRUT+DUM STAG	SREF	.6053	SQ.FT.
(GER003)	DATA NOT AVAILABLE	LREF	.5935	FT.
(GER009)	DATA NOT AVAILABLE	BREF	1.1710	FT.
(GER012)	ARC 66-703 QAS9 DALLA-(R5 V81)-STRUT	XMRP	12.6255	IN.
(GER013)	DATA NOT AVAILABLE	YMRP	.0000	IN.
		ZMRP	-.3750	IN.
		SCALE	.0150	

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

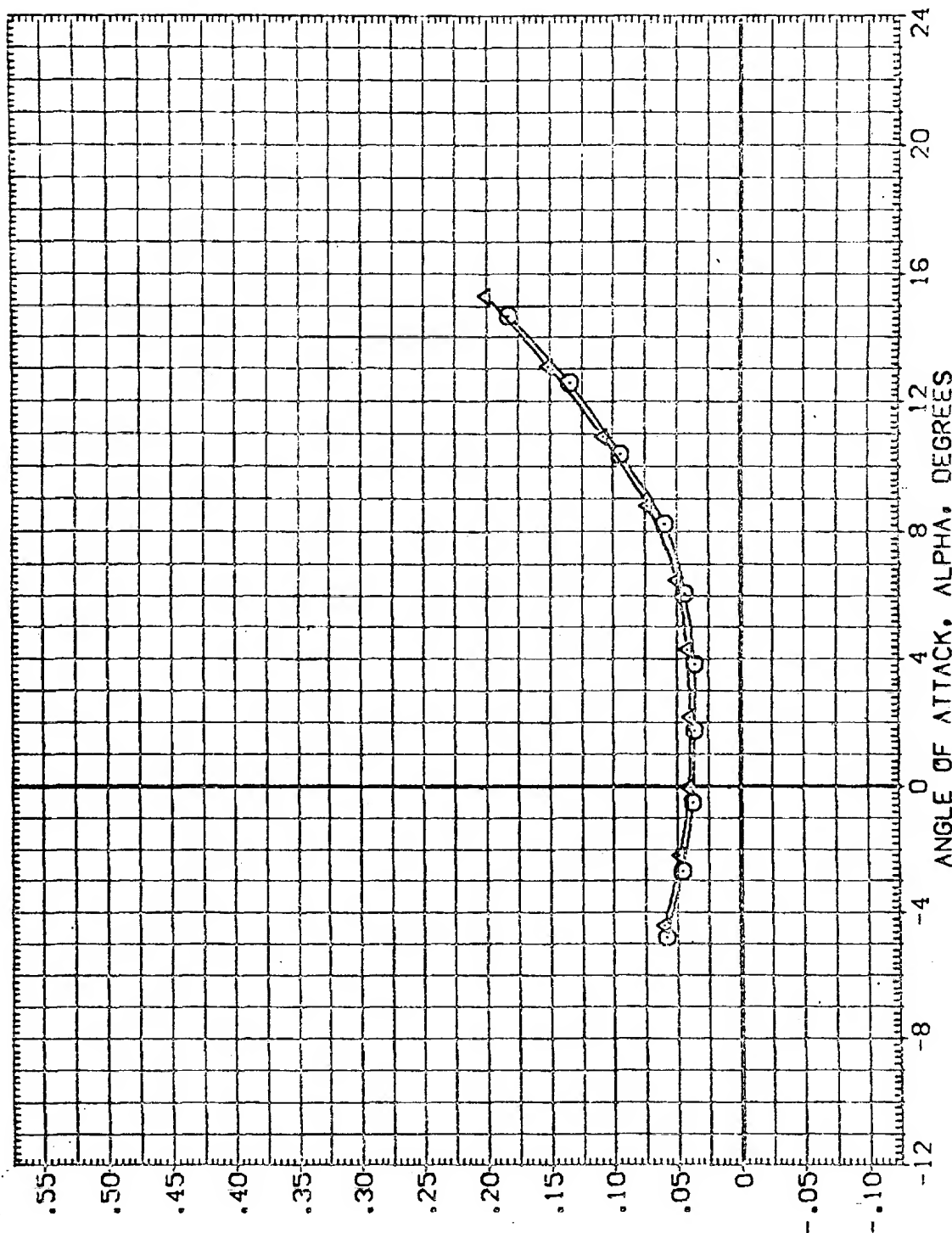


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL

(GER001)
(GER003)
(GER009)
(GER012)
(GER013)

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING
ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING
ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT
ARC 66-709 0A59 0A11A-(RS V81)-STRUT

BETA

.000
.000
.000
.000
.000

ELEVON

.000
15.000
.000
.000
15.000

BOFLAP

-11.700
-11.700
-11.700
-11.700
-11.700

REFERENCE INFORMATION

SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6755 IN.
ZMRP .0000 IN.
SCALE .0150

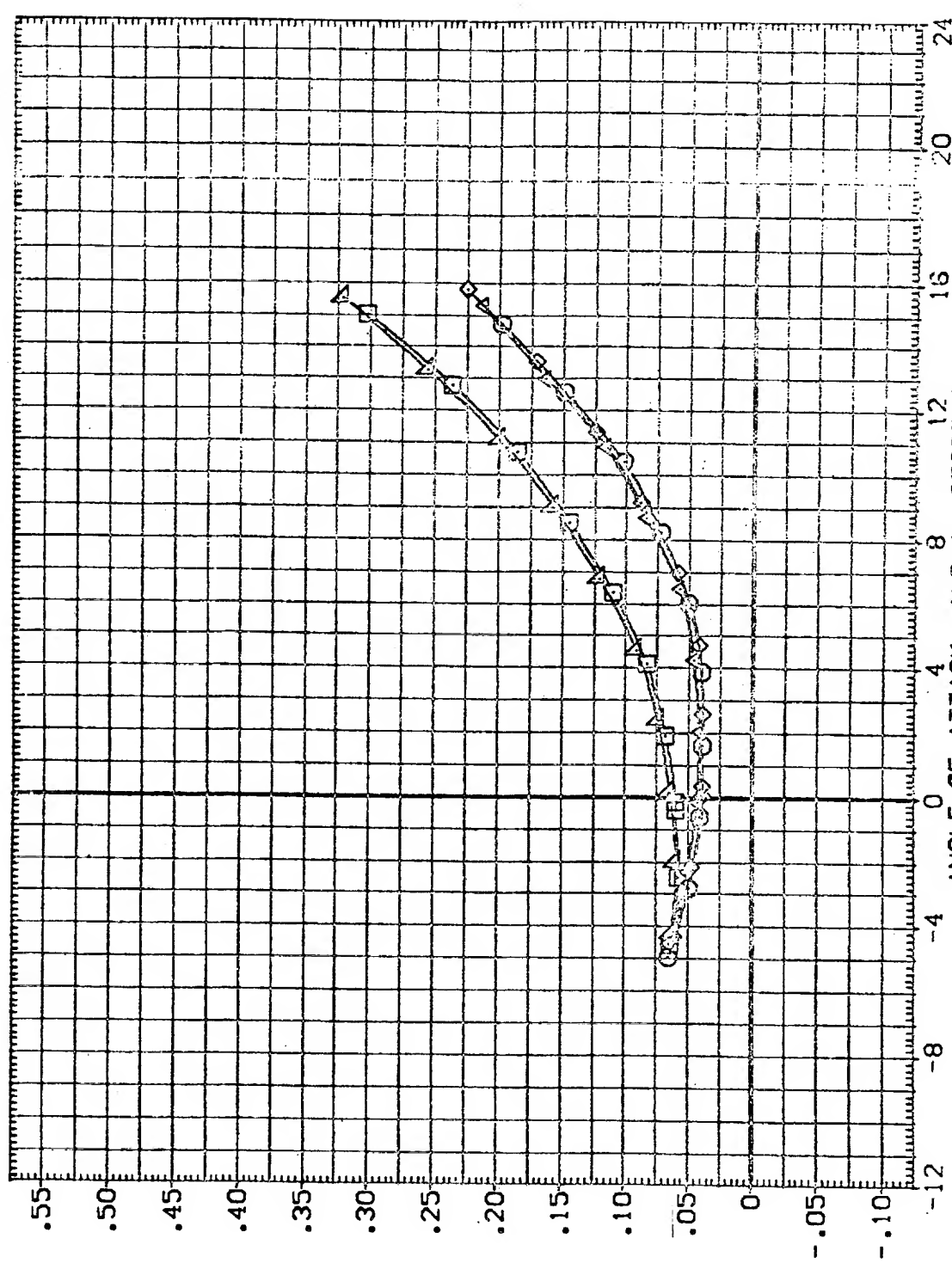


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BUFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

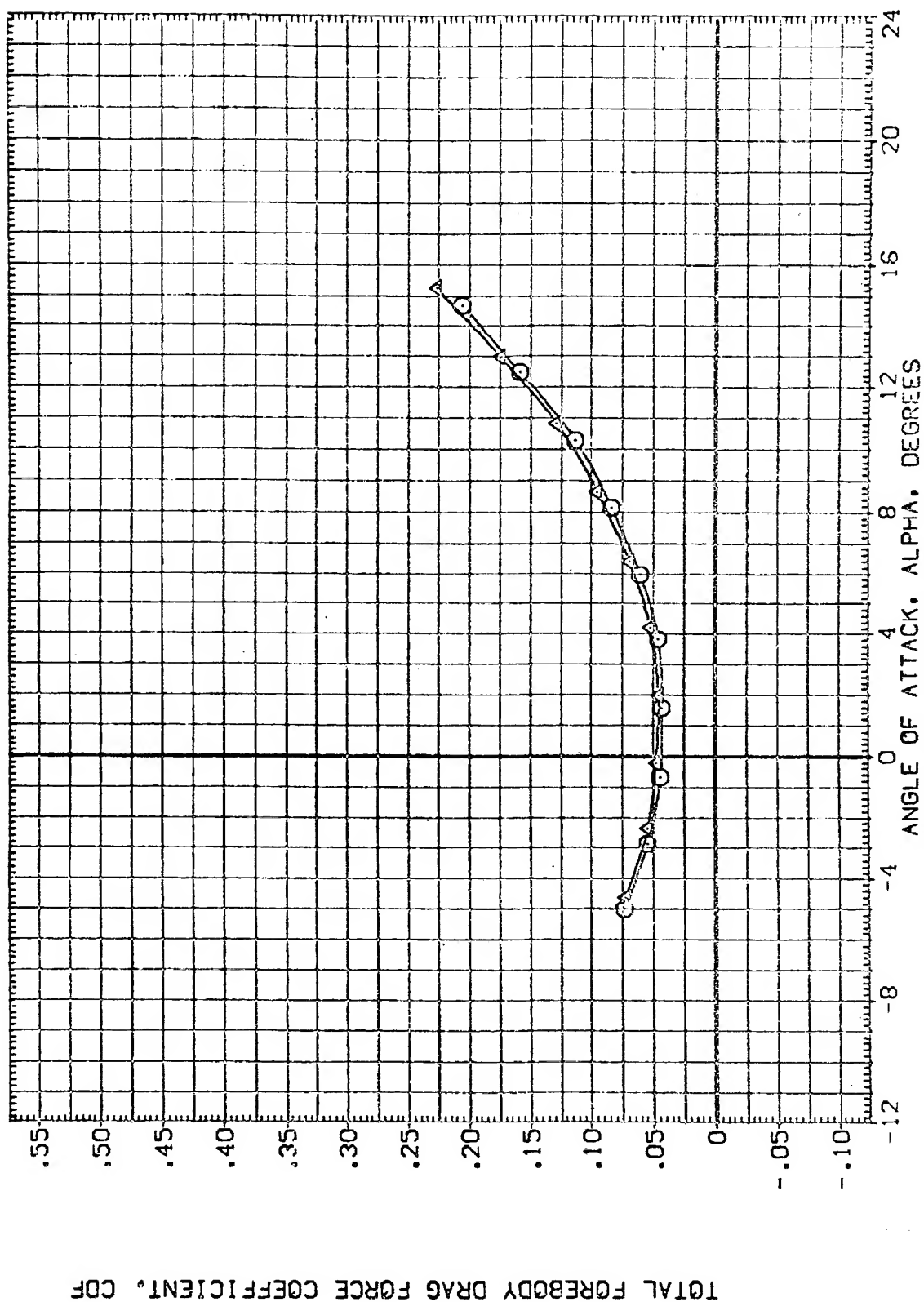
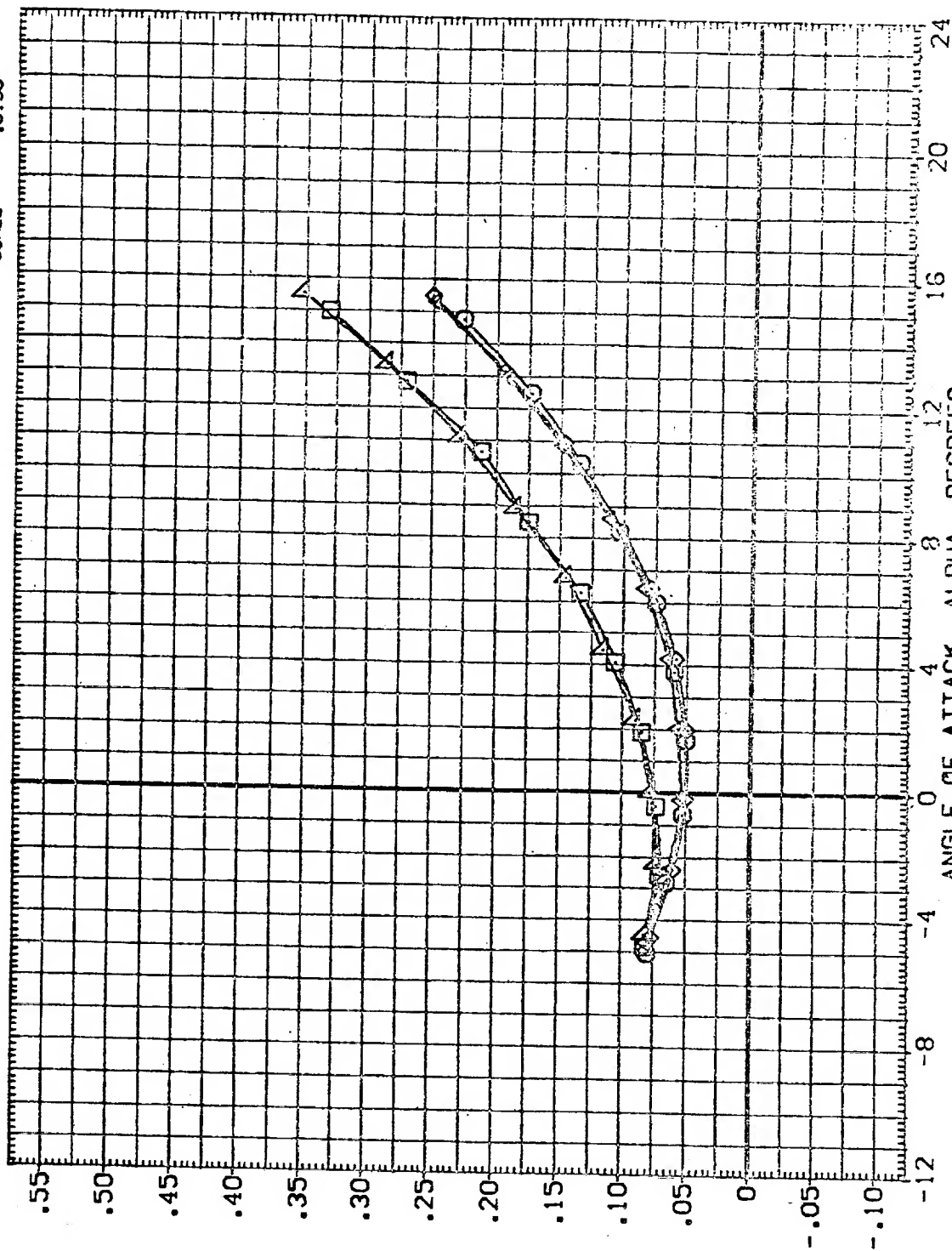


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(FMACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 65-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 65-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

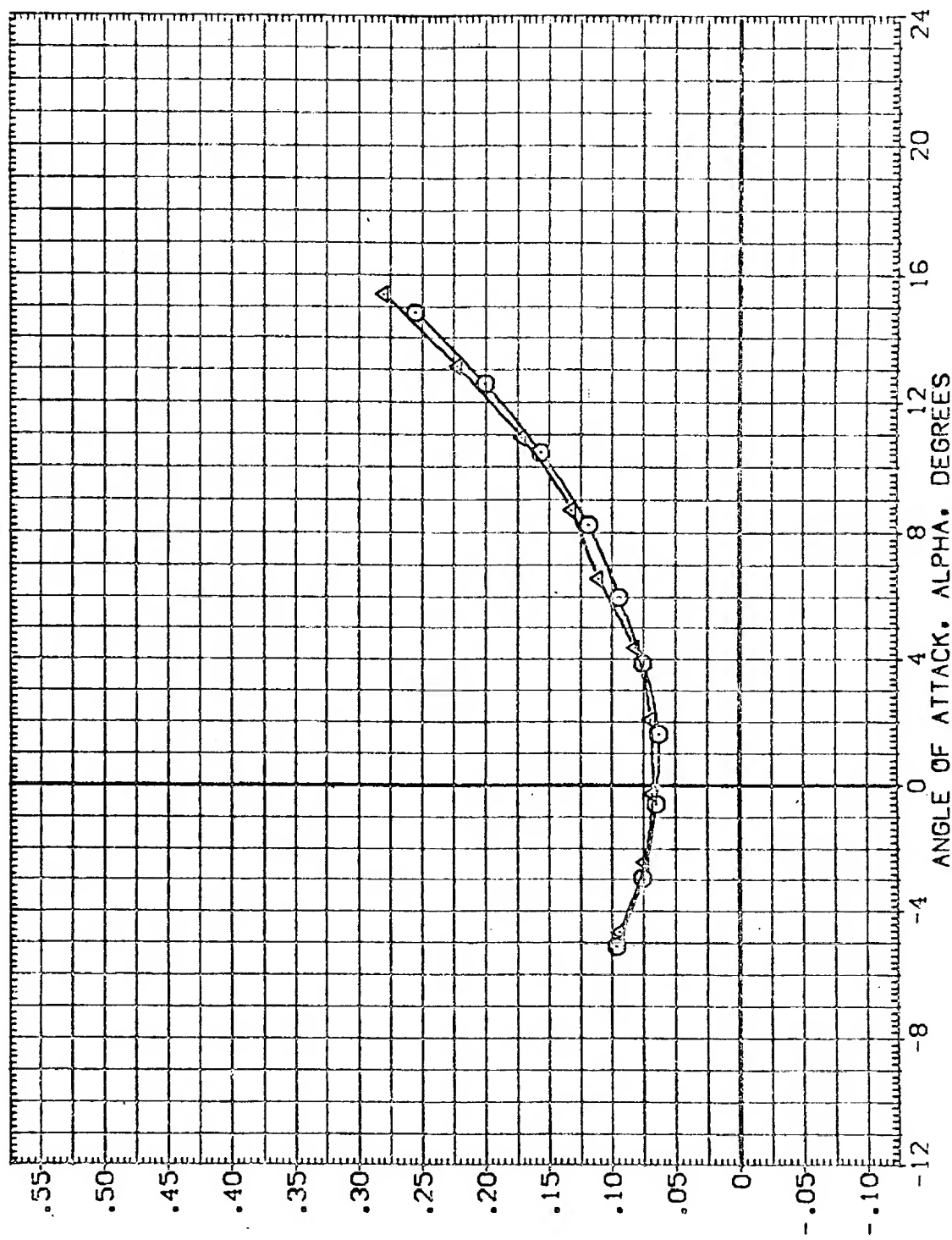
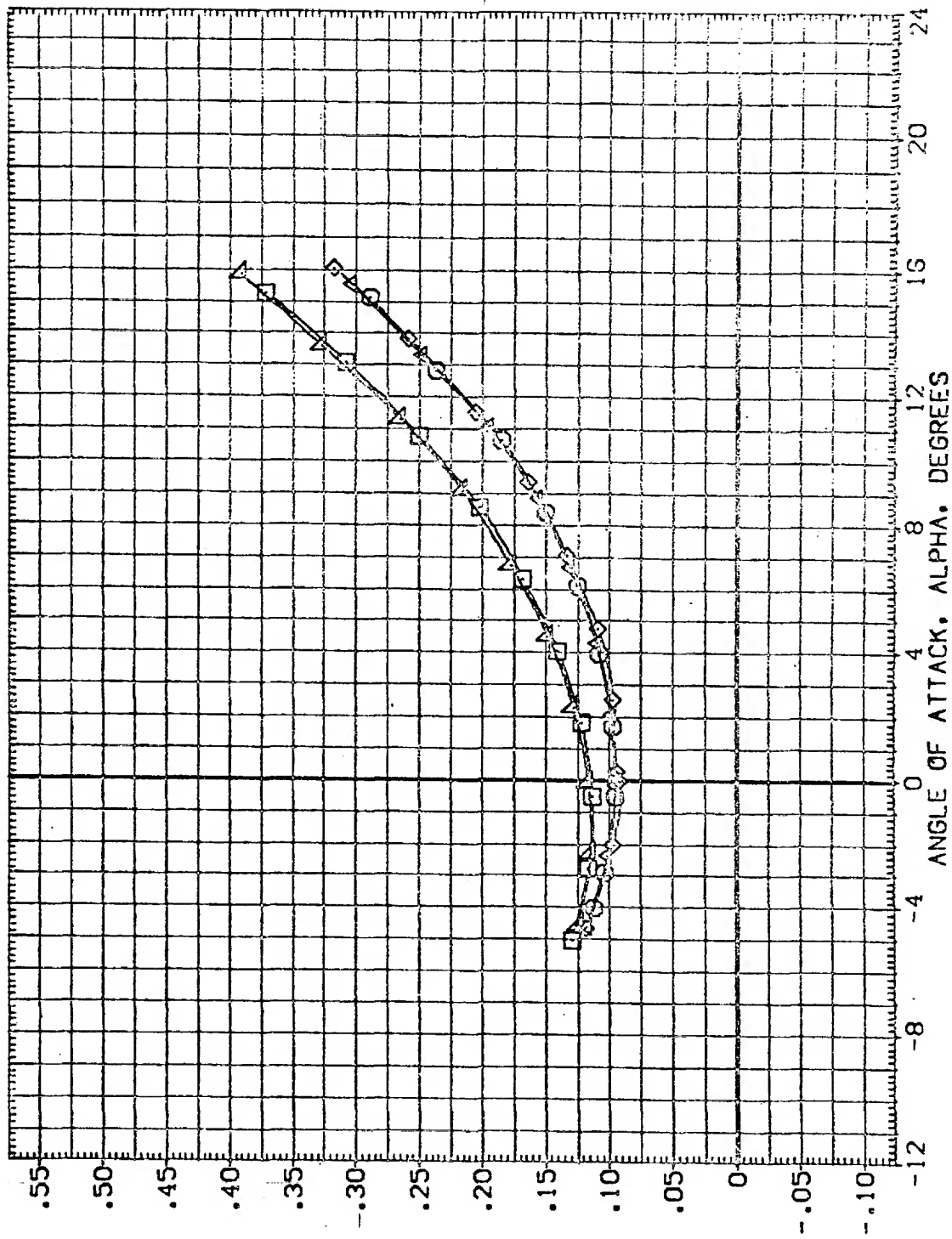


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER003}	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
{GER009}	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
{GER012}	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{GER013}	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



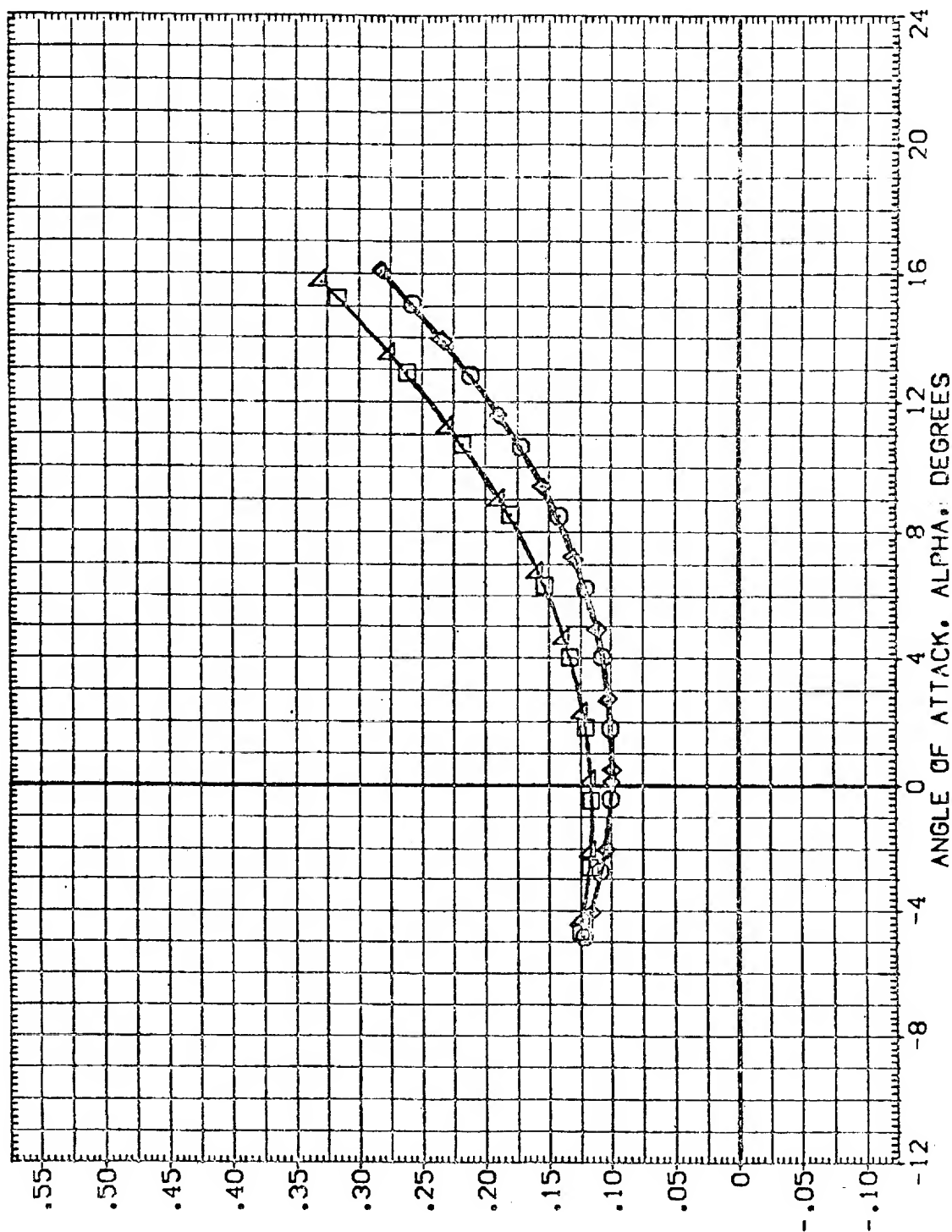
TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF	.5053	50. FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF	.5935	FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF	1.1710	FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP	12.6255	IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP	.0000	IN.
					ZMRP	-3.350	IN.
					SCALE	.0150	



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

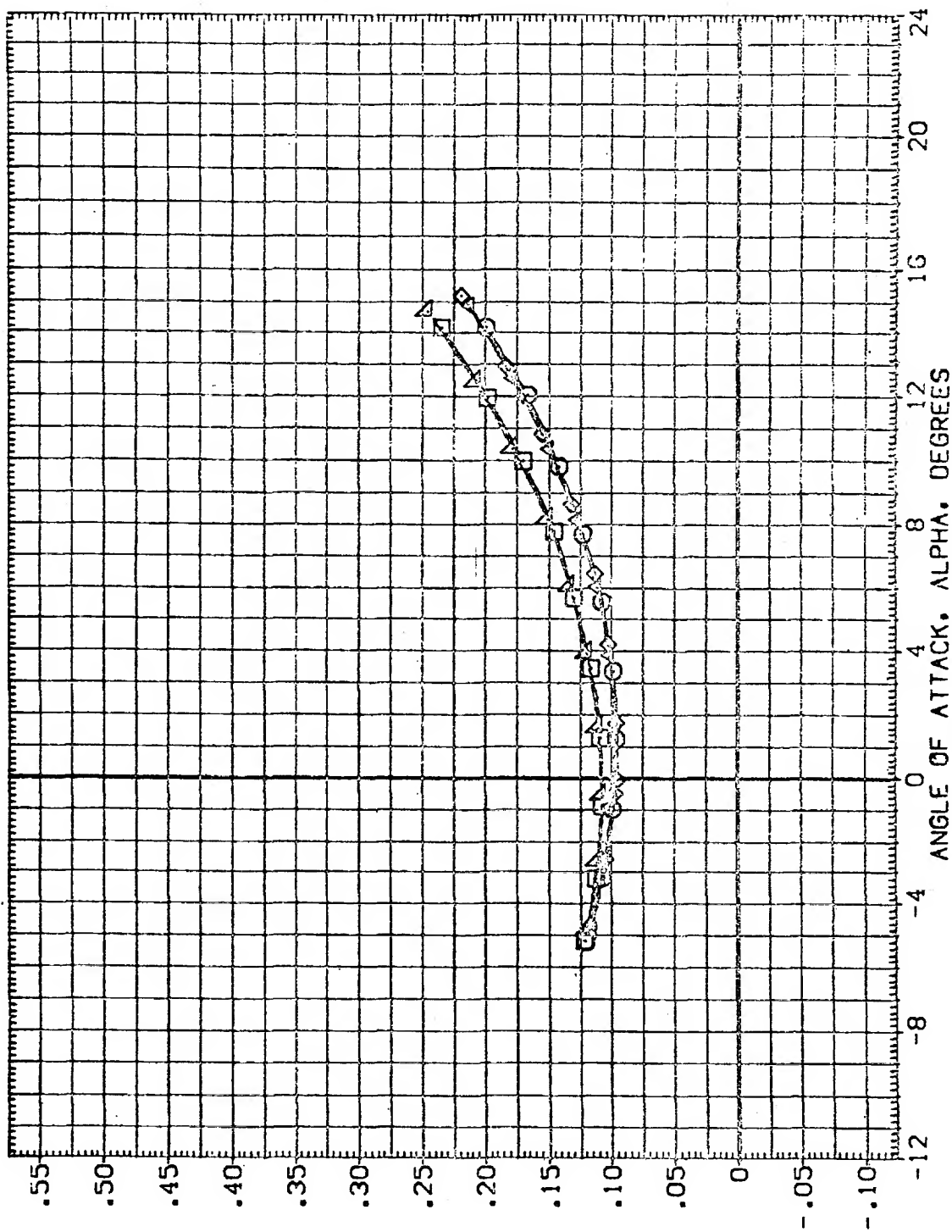


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER008)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

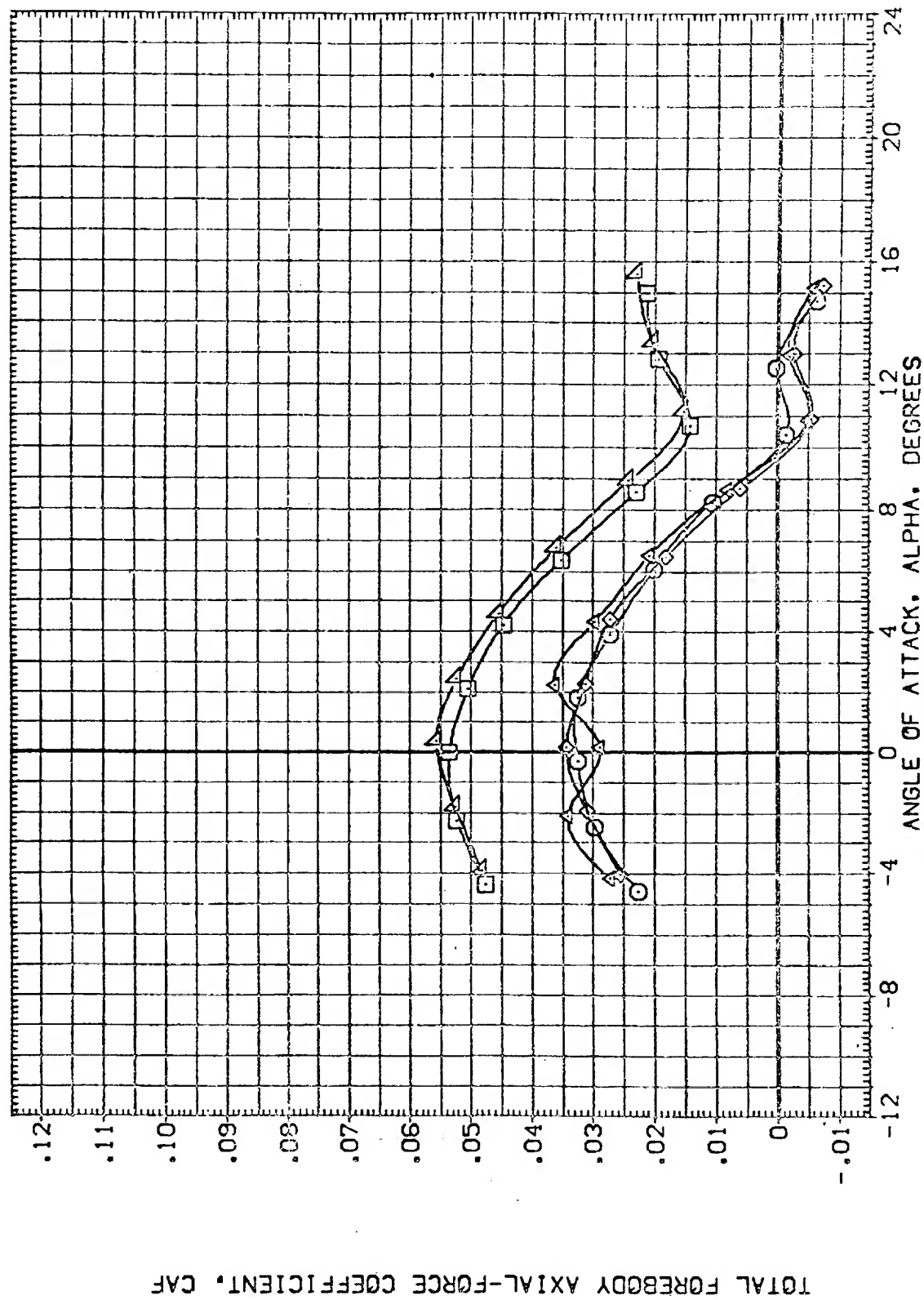


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CA/MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRF 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRF .0000 IN.
					ZMRF -.3750 IN.
					SCALE .0150

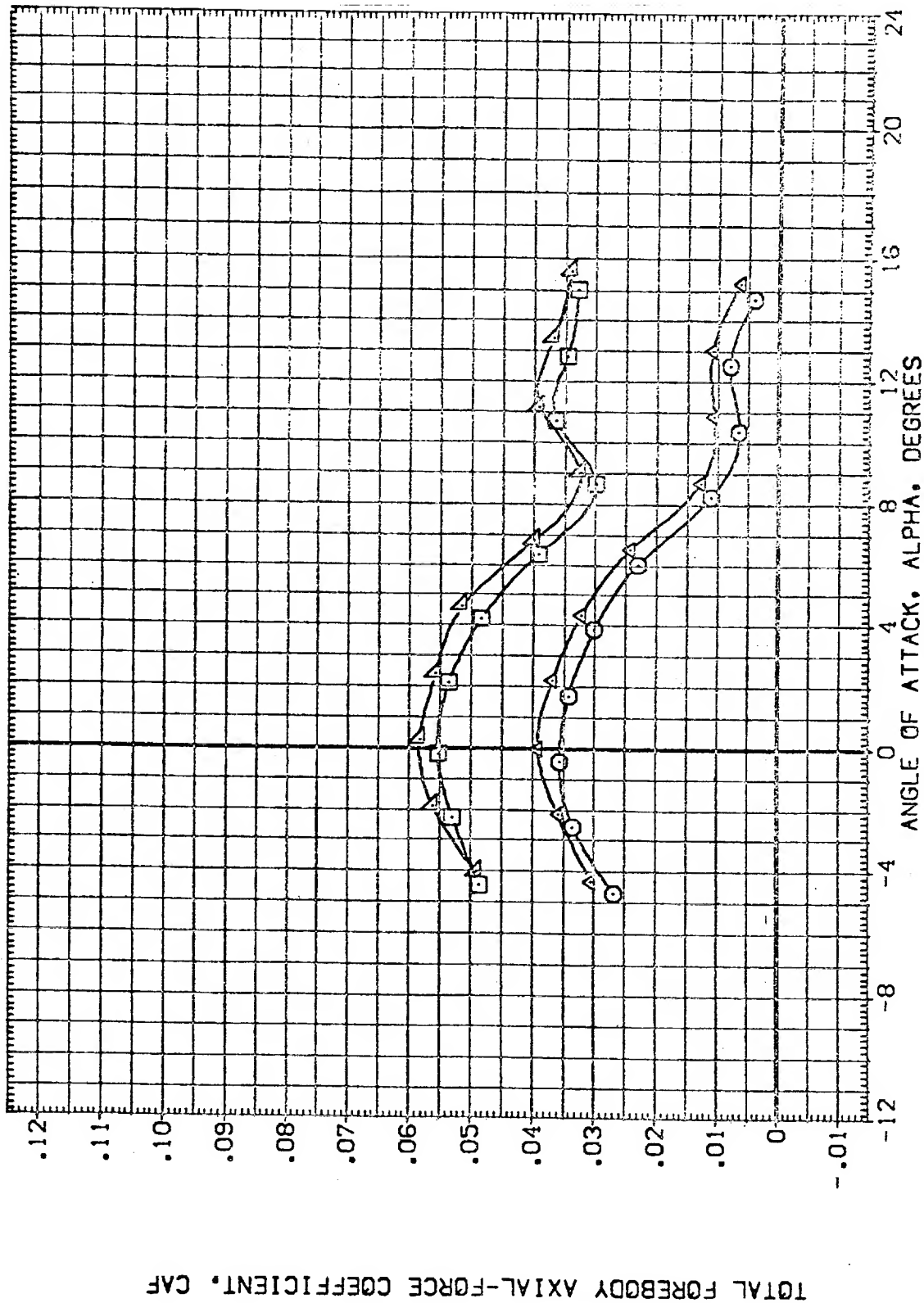


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 65-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING

(GER003) DATA NOT AVAILABLE

(GER005) DATA NOT AVAILABLE

(GER012) ARC 65-709 0A59 0A11A-(RS V81)+STRUT

(GER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 50. FT.

LREF 5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

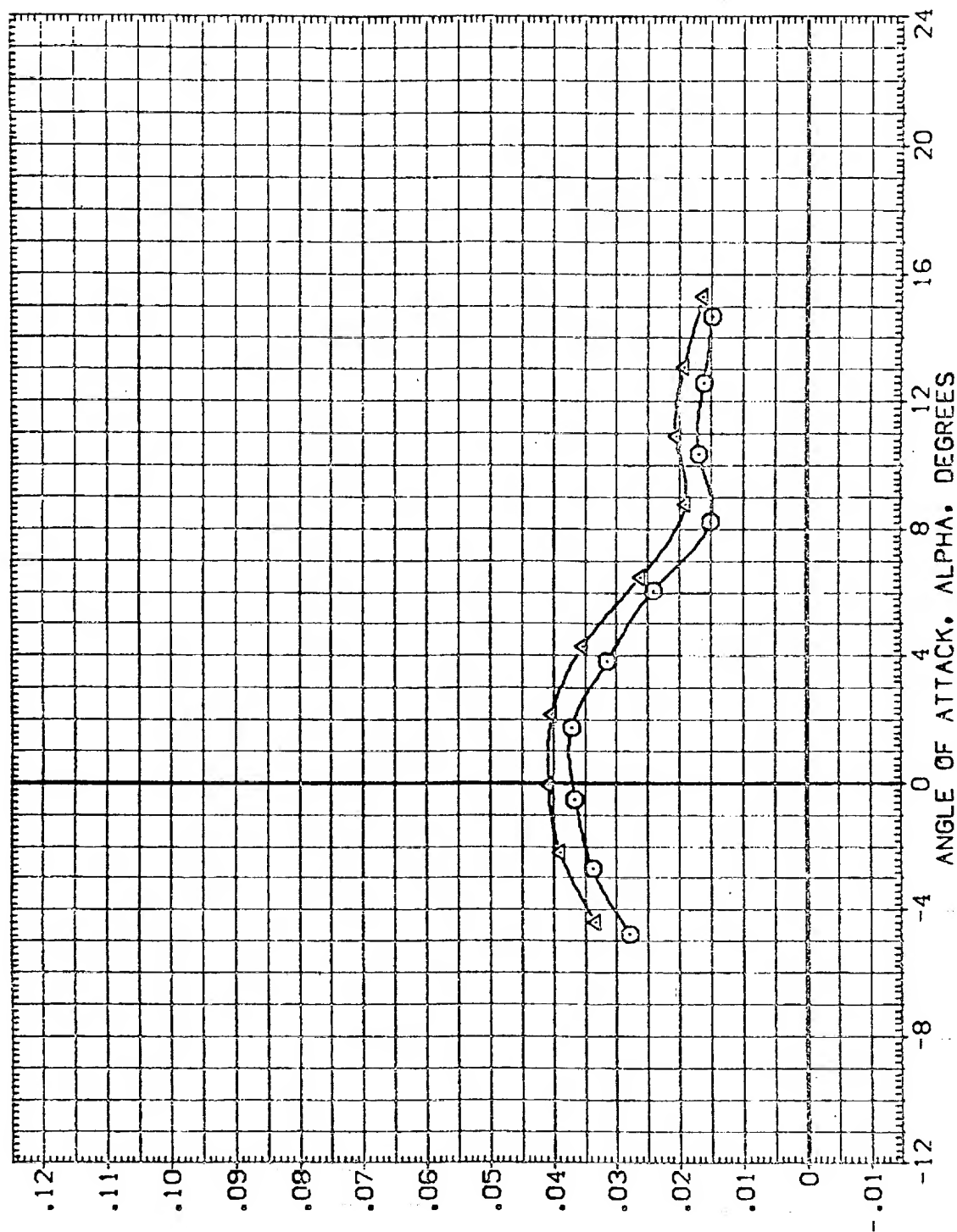


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50 FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

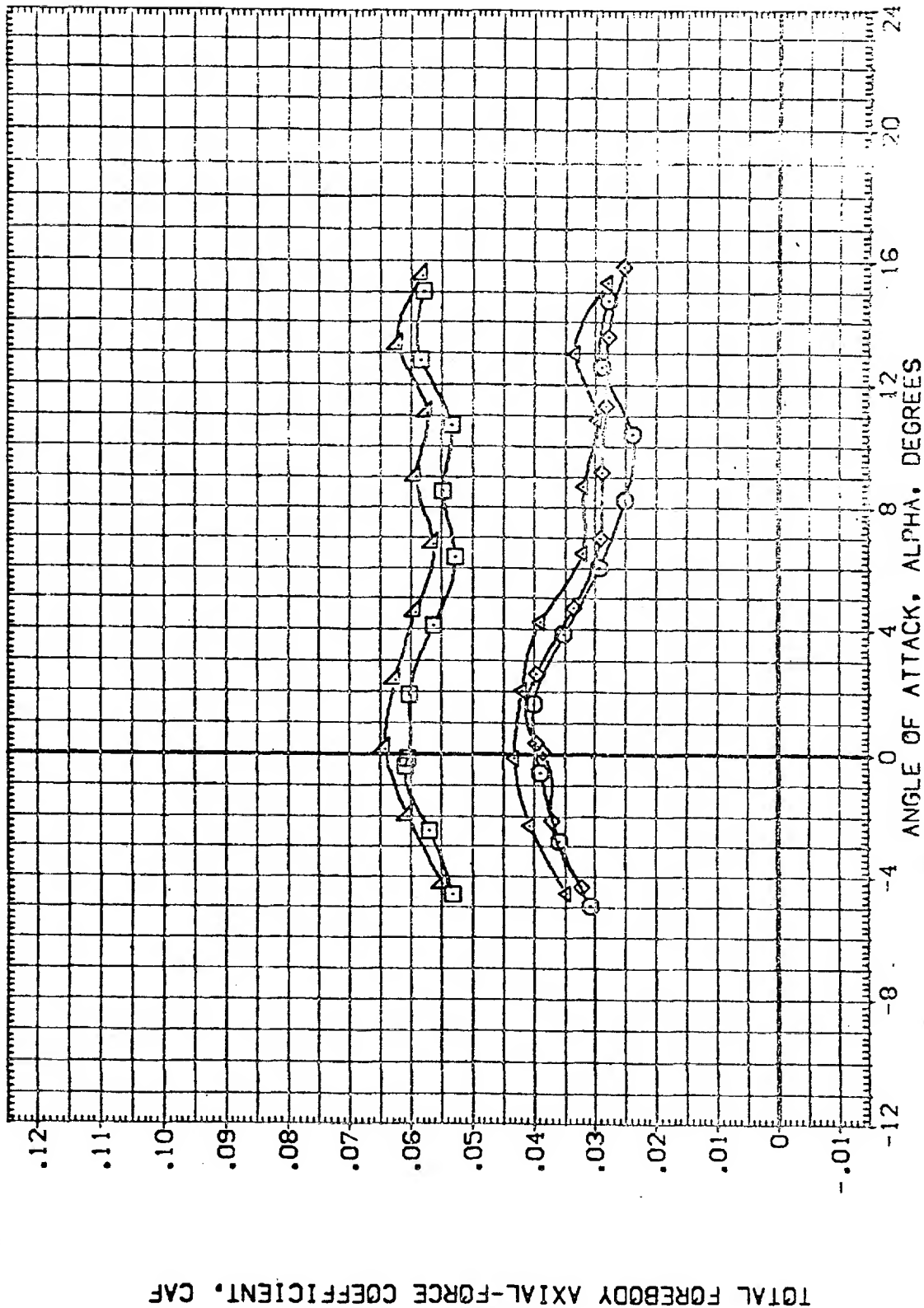


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STING

(GER003) DATA NOT AVAILABLE

(GER009) DATA NOT AVAILABLE

(GER012) ARC 66-709 OAS9 0A11A-(RS V81)+STRUT

(GER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

YMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

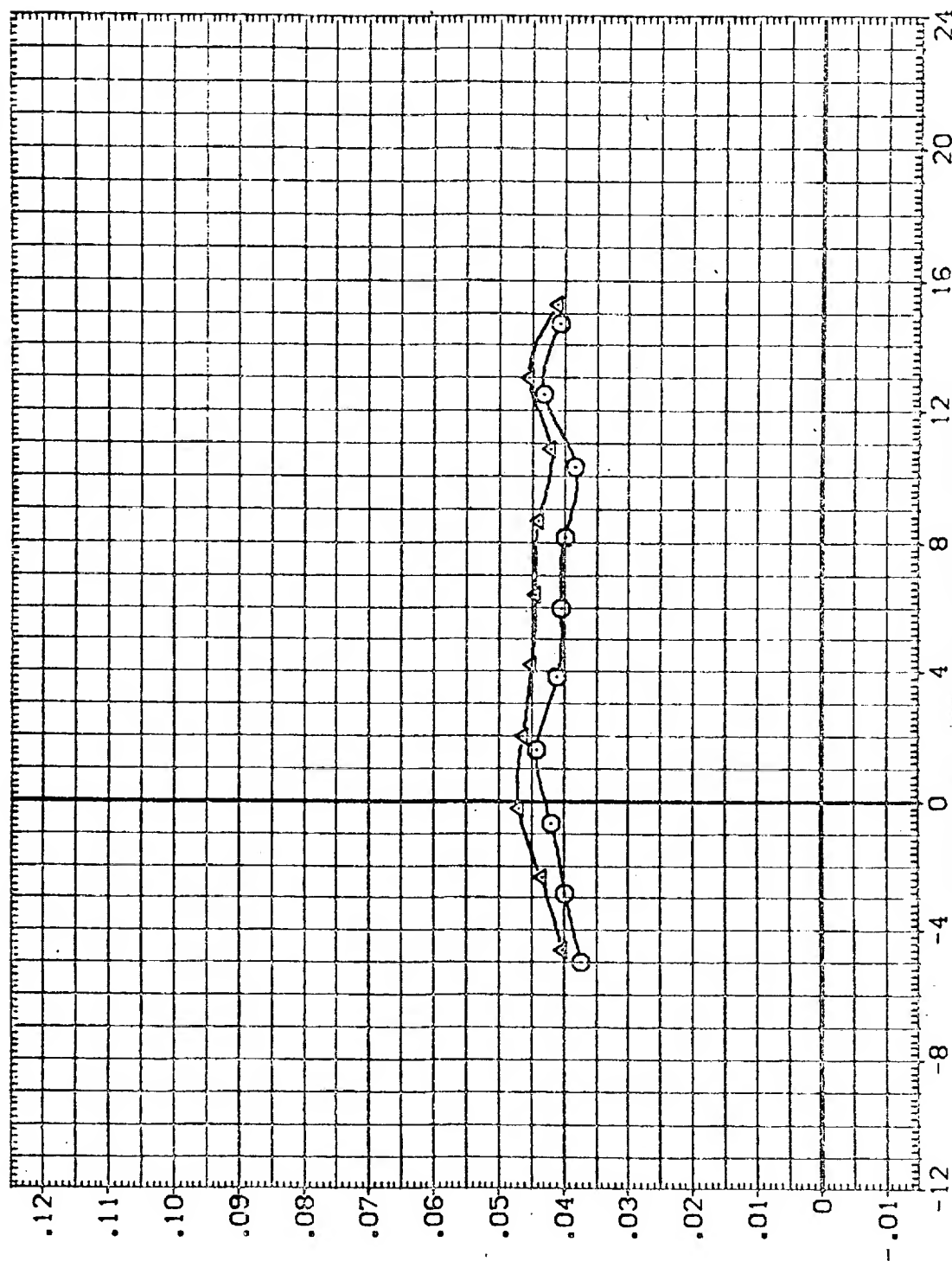


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG

(GER003) ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG

(GER008) ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT

(GER012) ARC 66-709 0A59 0A11A-(RS V81)*STRUT

(GER013) ARC 66-709 0A59 0A11A-(RS V81)*STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

15.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

15.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

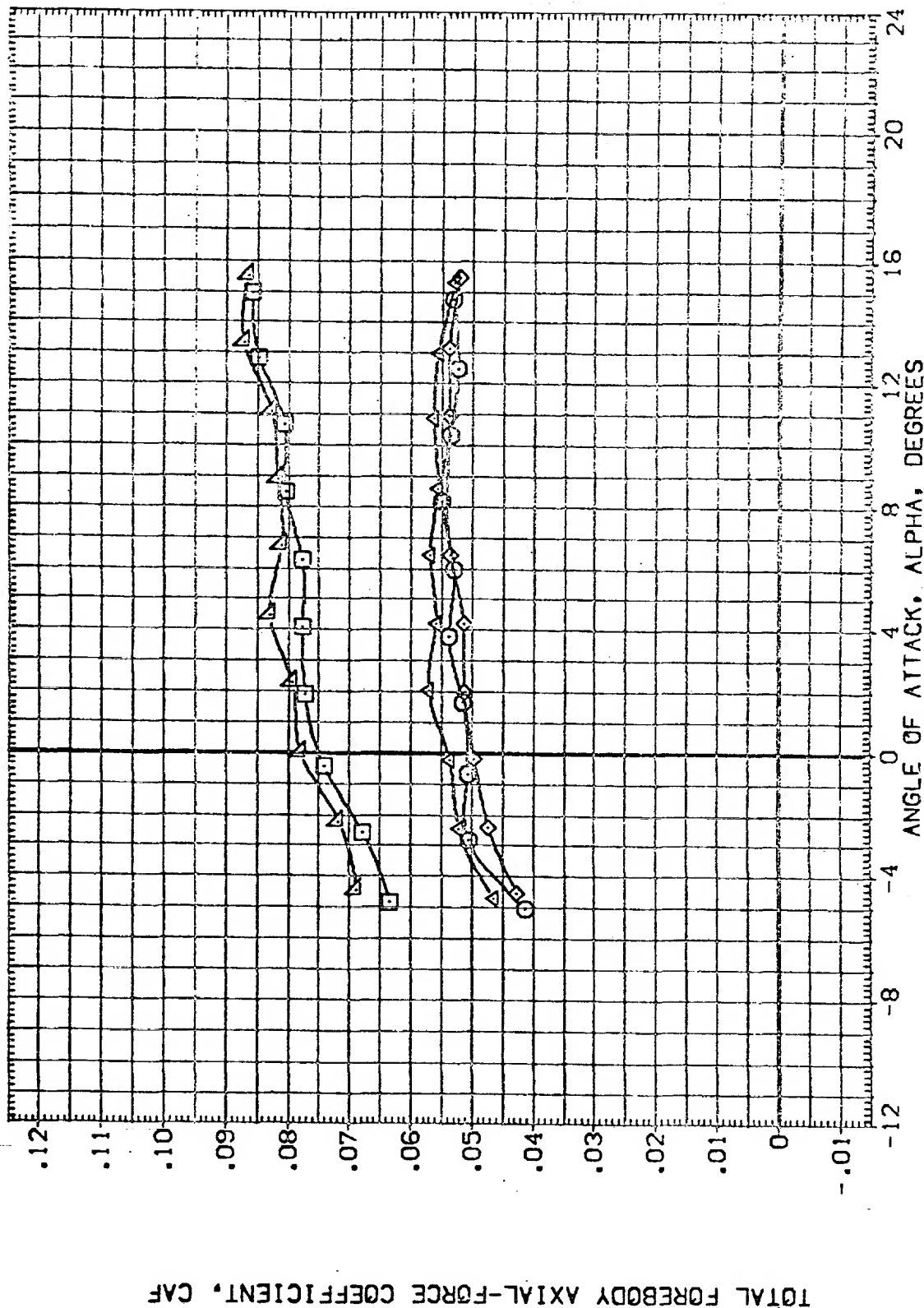


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION

SREF	6053	50 FT.
LREF	5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	BOFLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
15.000	-11.700

DATA SET SYMBOL

CONFIGURATION DESCRIPTION
ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STING
(GER001)
(GER003)
(GER009)
(GER012)
(GER013)

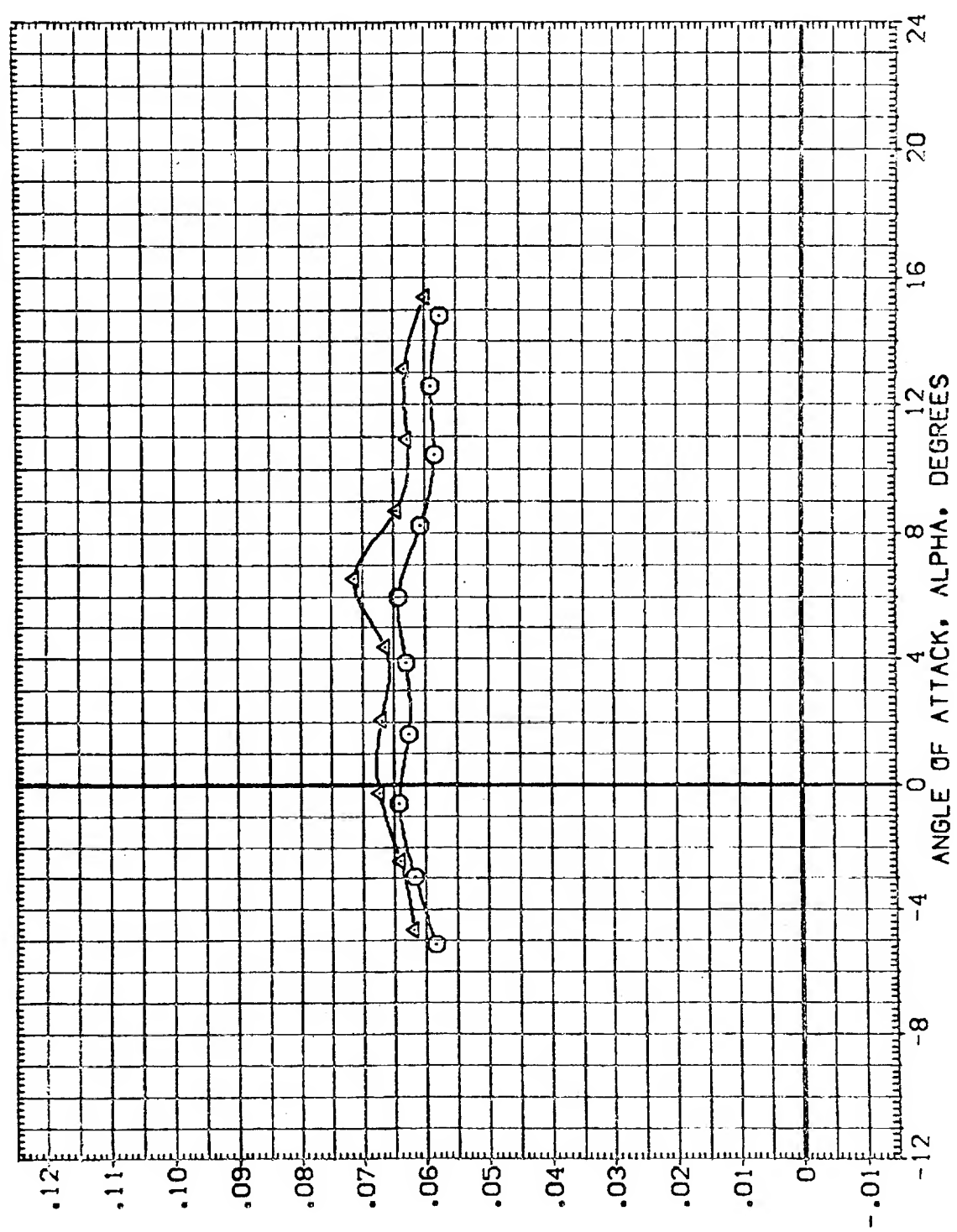


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

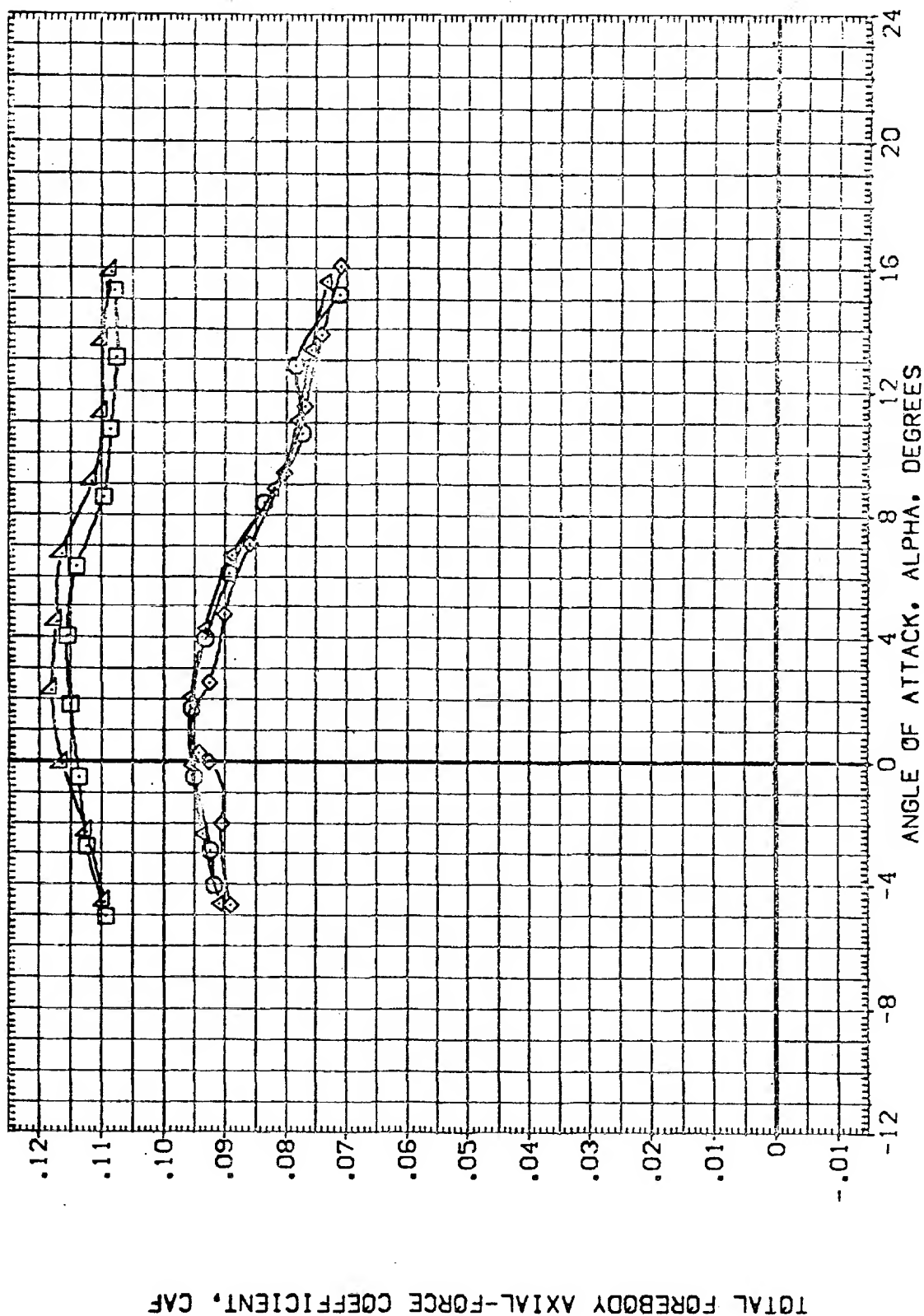
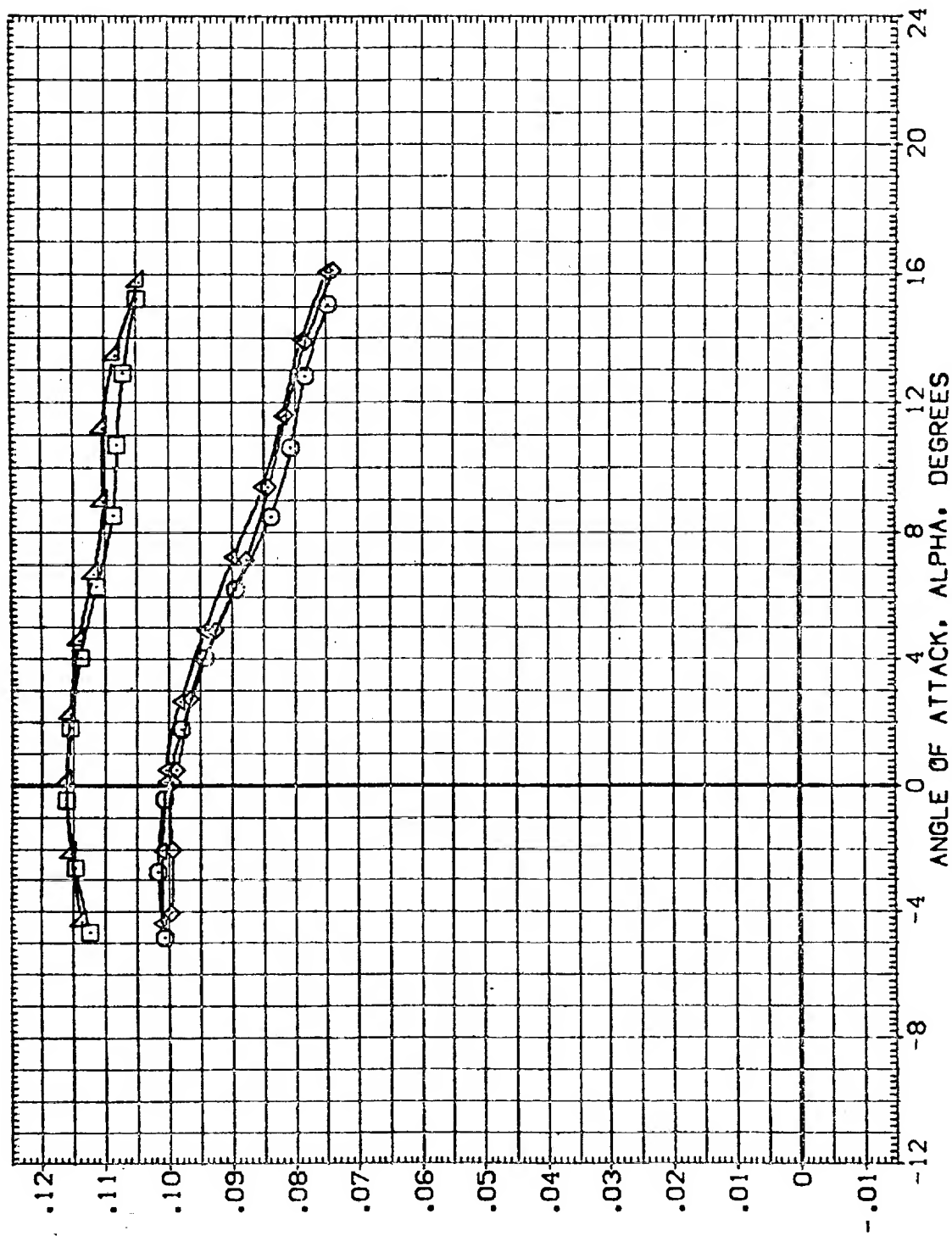


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 QALIA-(N24 RS V81)-STRUT+QJM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 QAS9 QALIA-(N24 RS V81)-STRUT+QJM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 QAS9 QALIA-(N24 RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 QALIA-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 QAS9 QALIA-(RS V81)-STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, CAF

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER003}	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
{GER009}	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
{GER012}	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
{GER013}	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

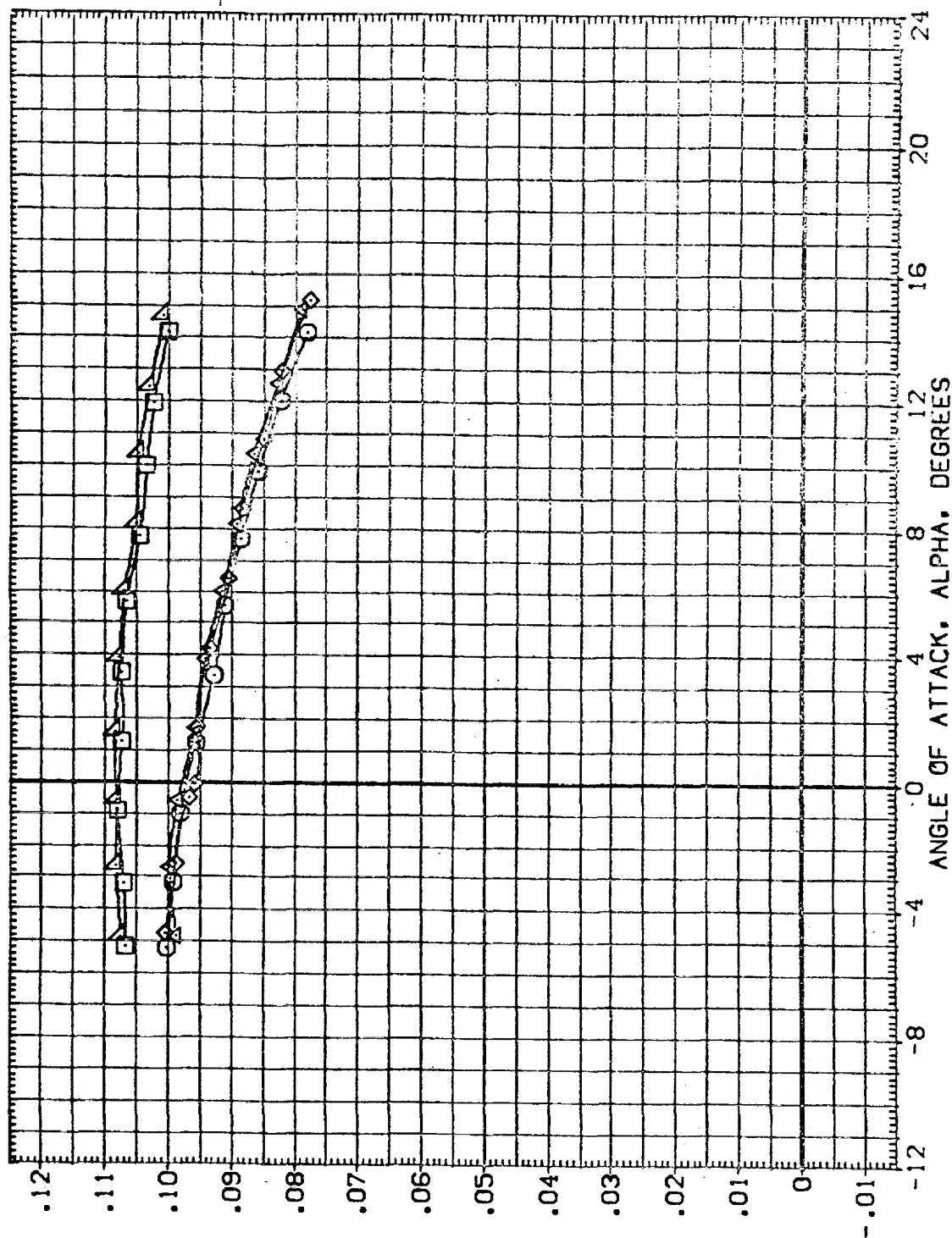


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

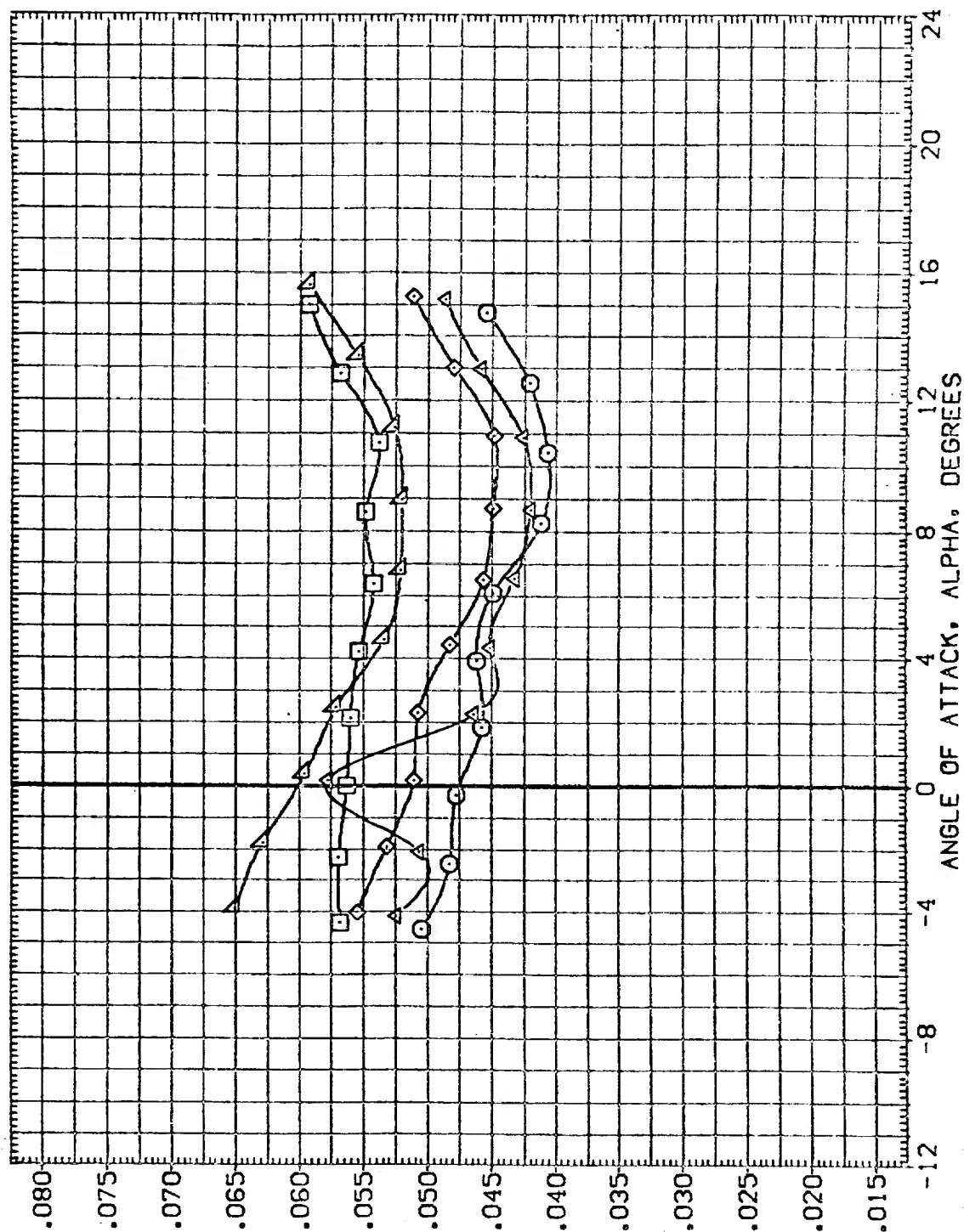


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

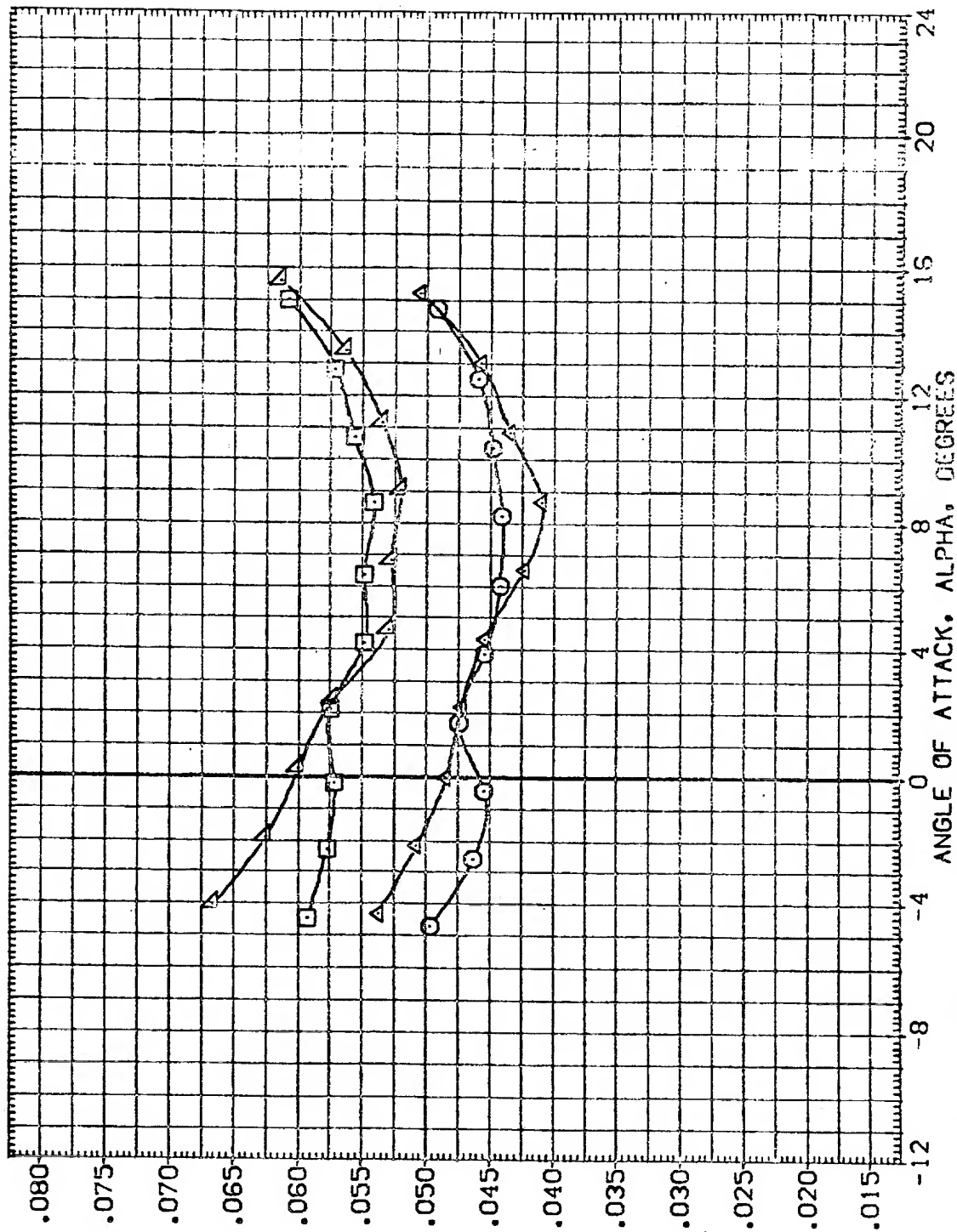


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	DOFLAP	REFERENCE INFORMATION
(GER001)	ARC 65-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(GER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 65-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

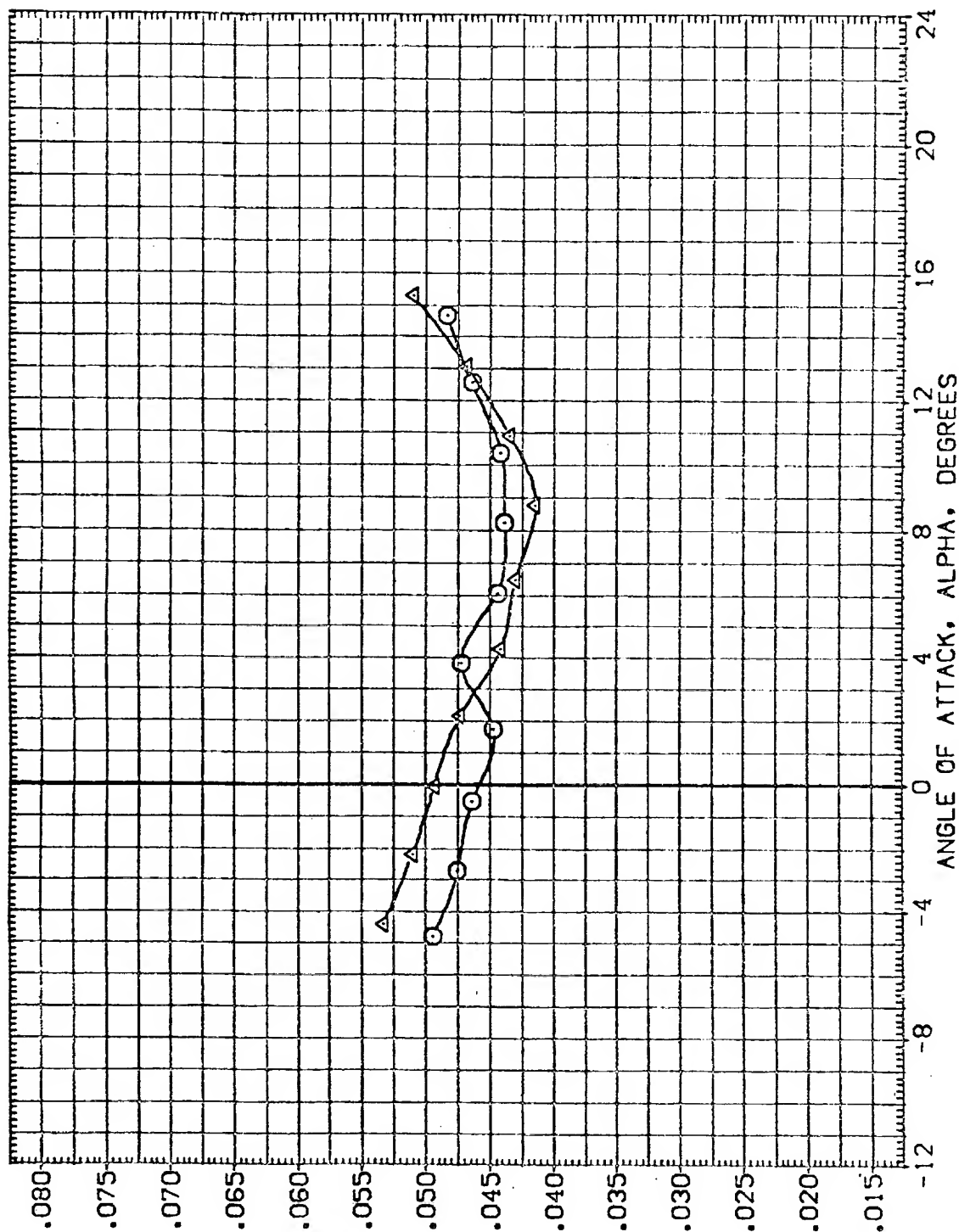


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	15.000	-11.700	UREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

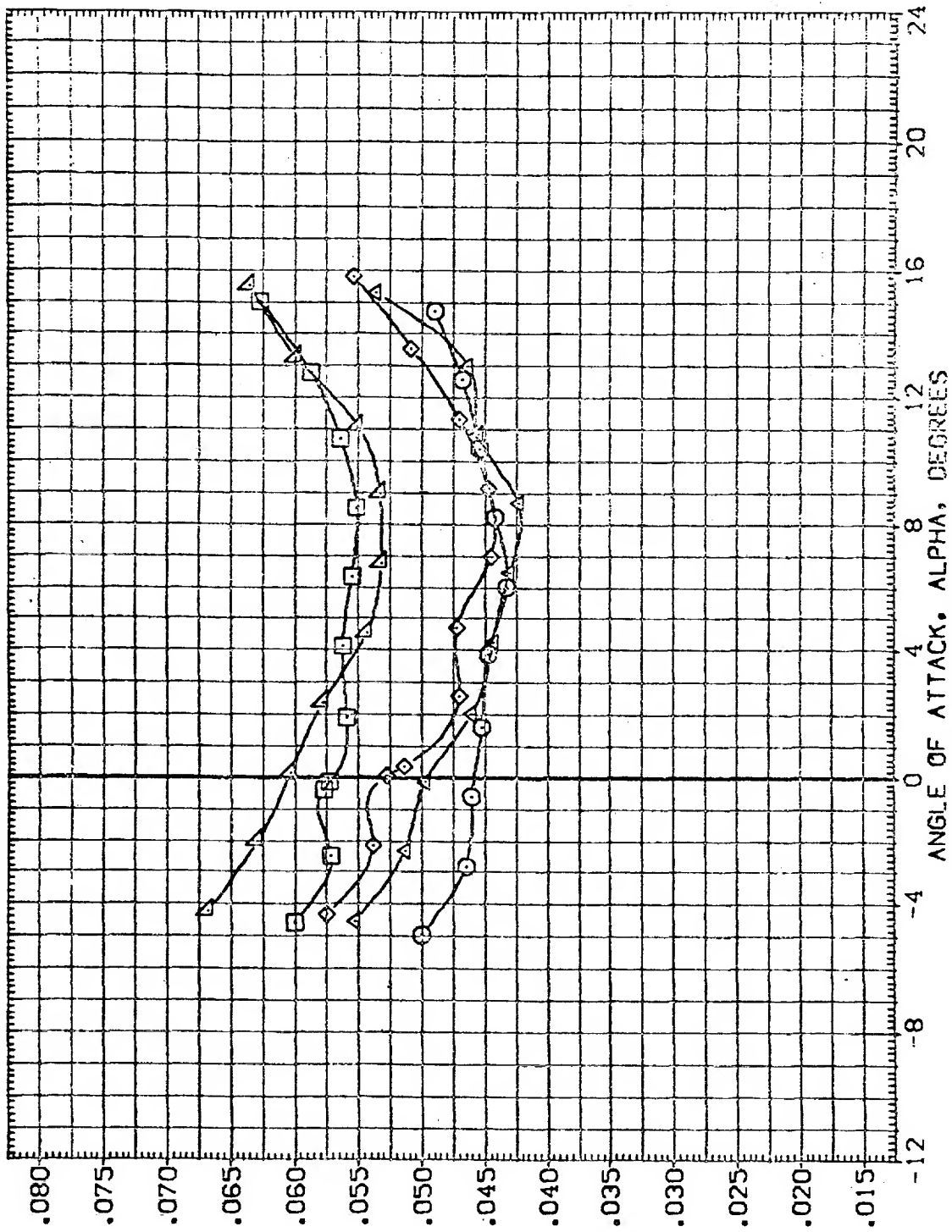


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

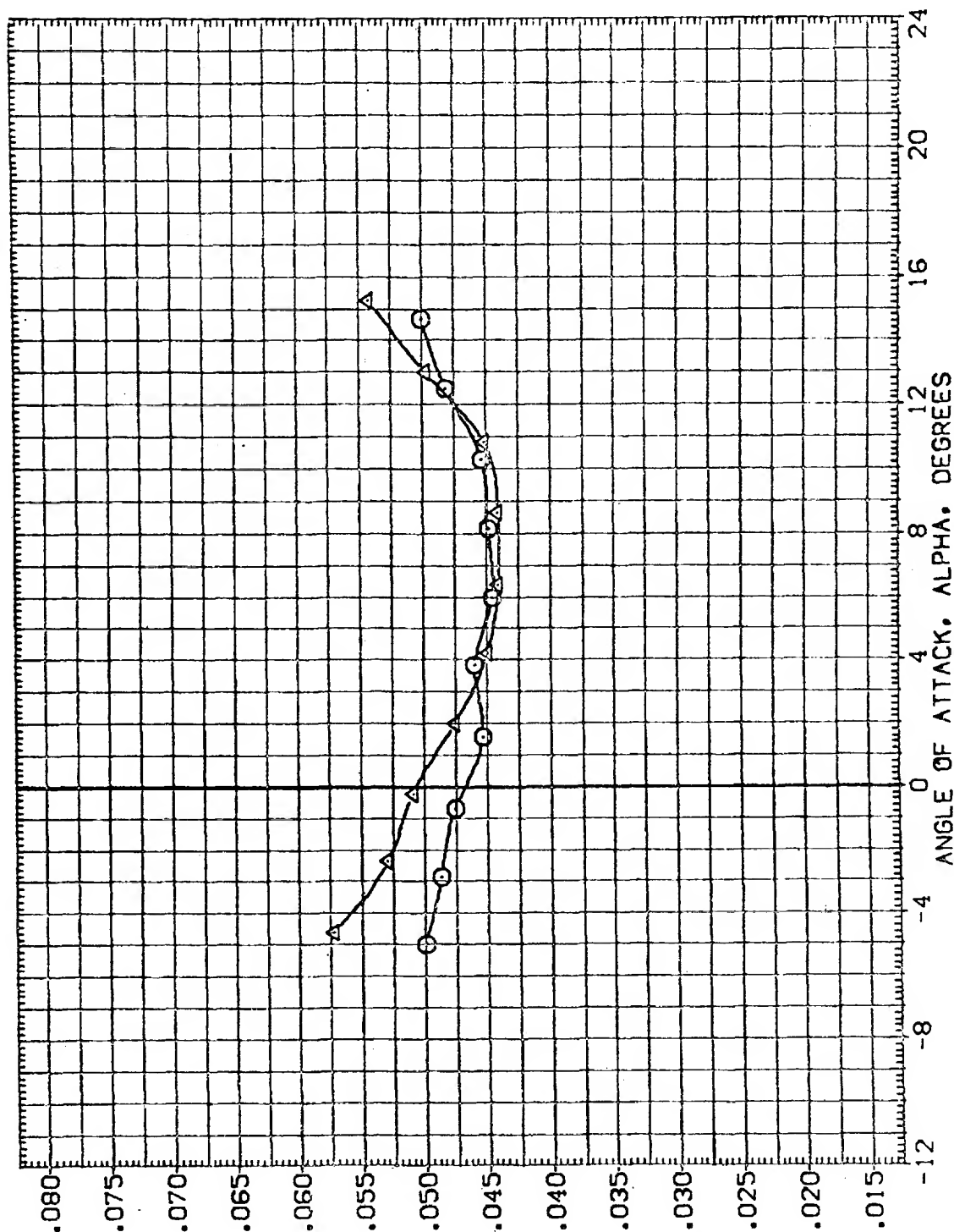
ELEVON	BOFLAP
.000	-11.700
15.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709 CAS9 0A11A-(N24 RS V8)-STRUT+DLM STING
DATA NOT AVAILABLE
ARC 66-709 CAS9 0A11A-(RS V8)-STRUT
DATA NOT AVAILABLE

DATA SET SYMBOL

(GER001)	□
(GER003)	○
(GER009)	△
(GER012)	×
(GER013)	◇



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDF LAP REFERENCE INFORMATION

{GER001} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QUM SING .000 .000 -11.700 SREF .6053 50.FT.

{GER003} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QUM SING .000 15.000 -11.700 LREF .5935 FT.

{GER009} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT .000 .000 -11.700 BREF 1.1710 FT.

{GER012} ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 15.000 -11.700 XMRP 12.6255 IN.

{GER013} ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 15.000 -11.700 YMRP -.0000 IN.

SCALE -.3750 IN.

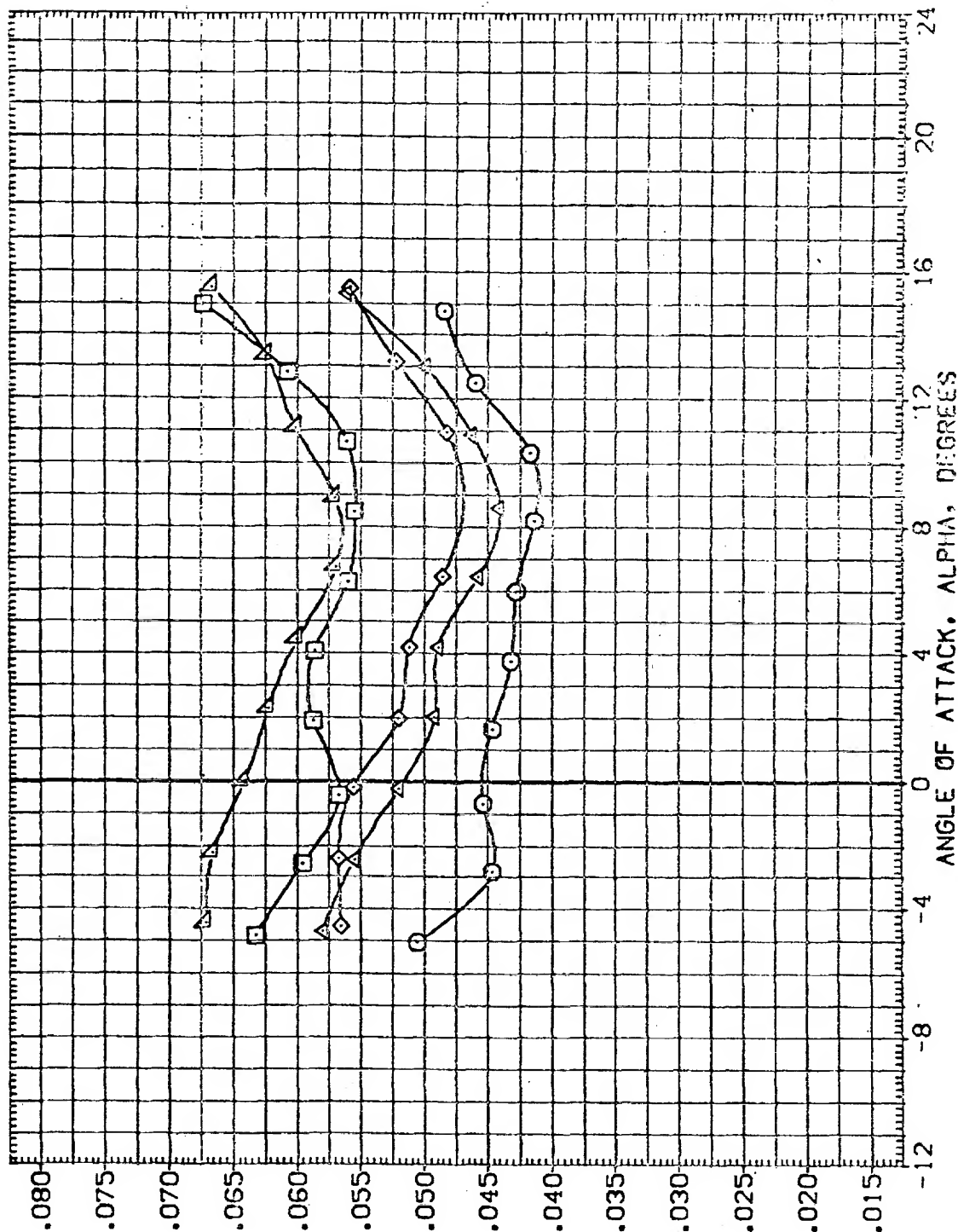


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(GER001) ARC 66-709 D459 D111A-(N24 R5 V0)+STRUT+DUM STING .000 .000 -11.700

(GER003) DATA NOT AVAILABLE .000 15.000 -11.700

(GER009) DATA NOT AVAILABLE .000 .000 -11.700

(GER012) ARC 66-709 D459 D111A-(R5 V8)+STRUT .000 .000 -11.700

(GER013) DATA NOT AVAILABLE .000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 SQ.FT.

LREF .5935 FT.

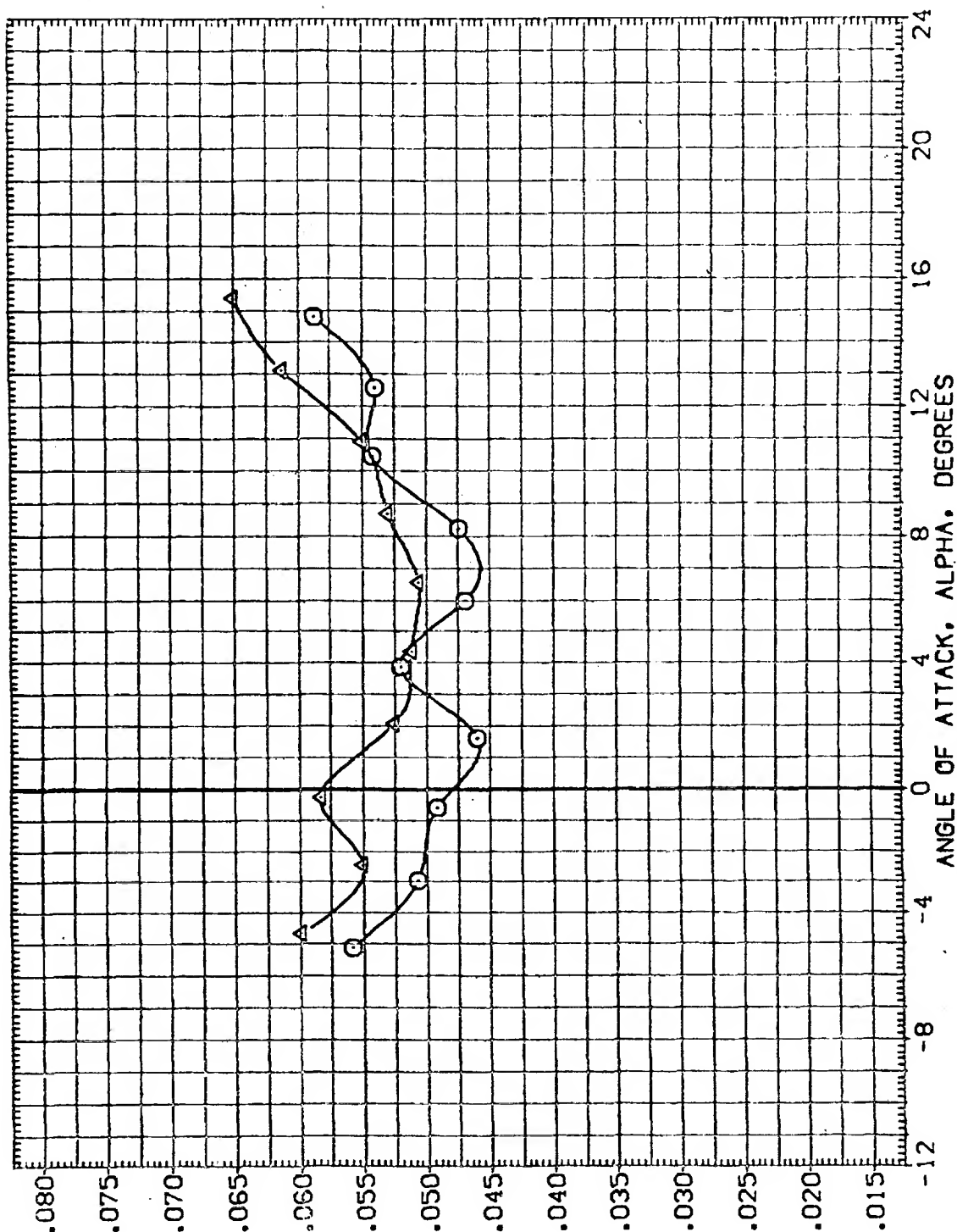
BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 50. FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	LREF 5935 FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP -.3750 IN.
					SCALE .0150

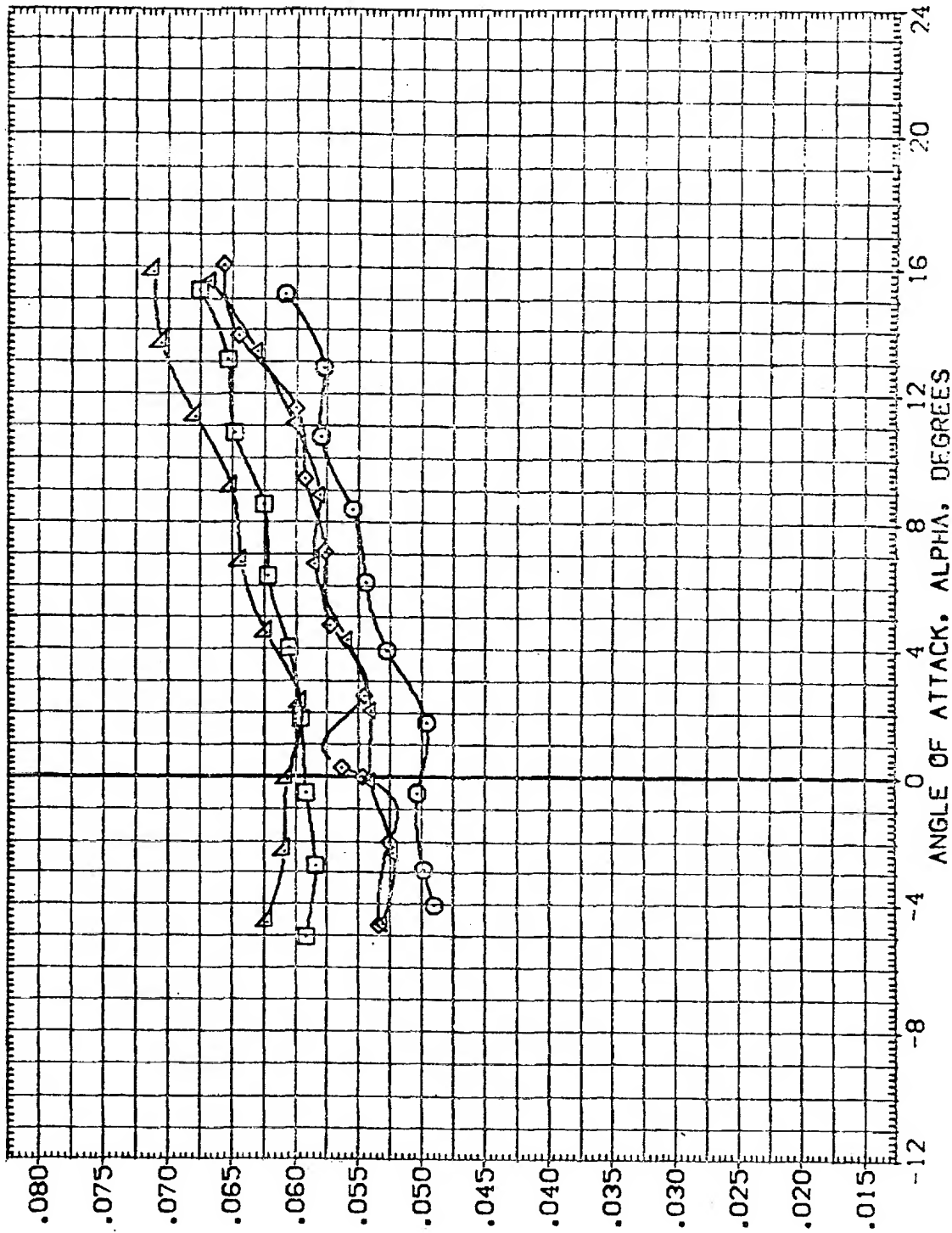


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

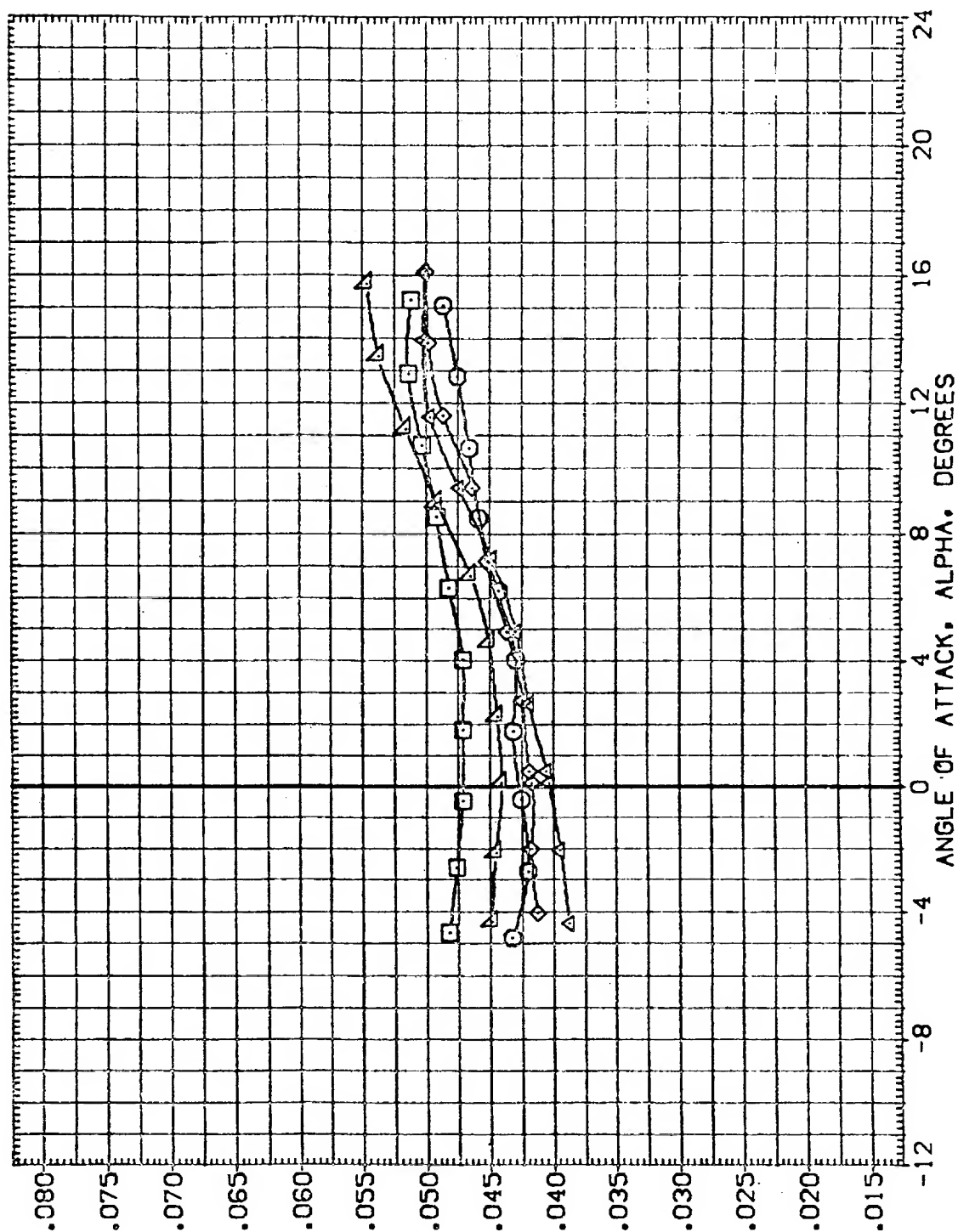


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER003)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

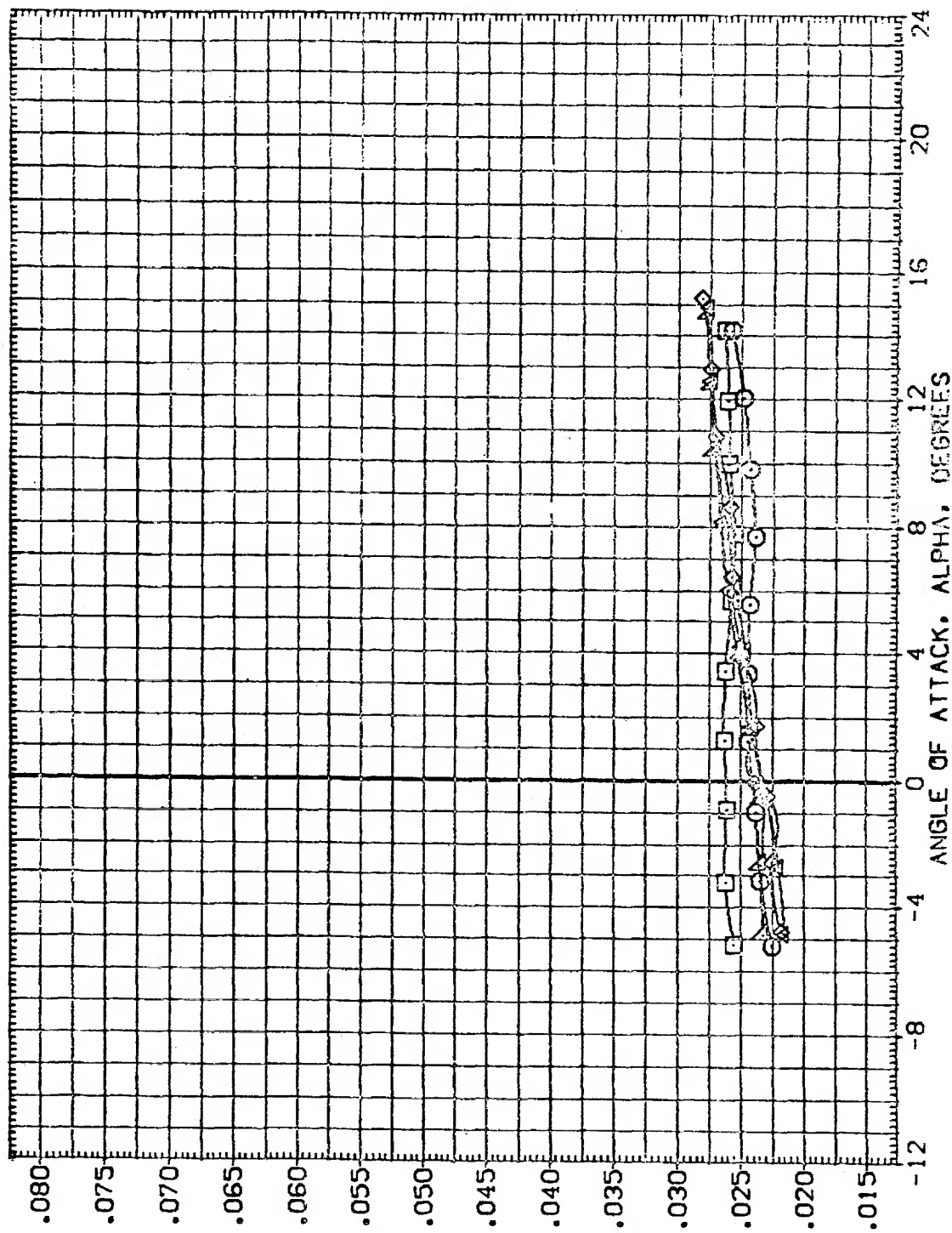


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+OUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+OUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

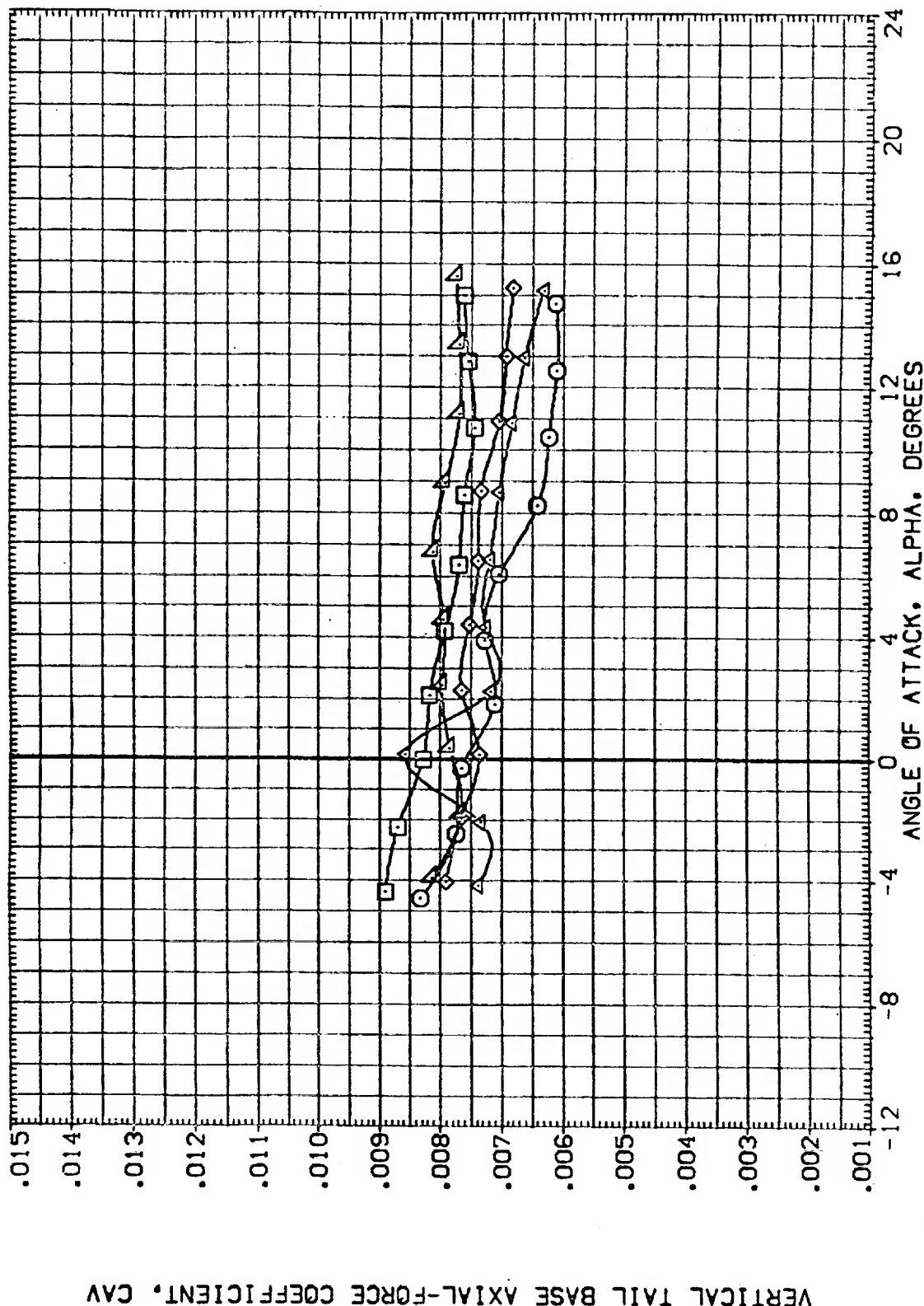


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

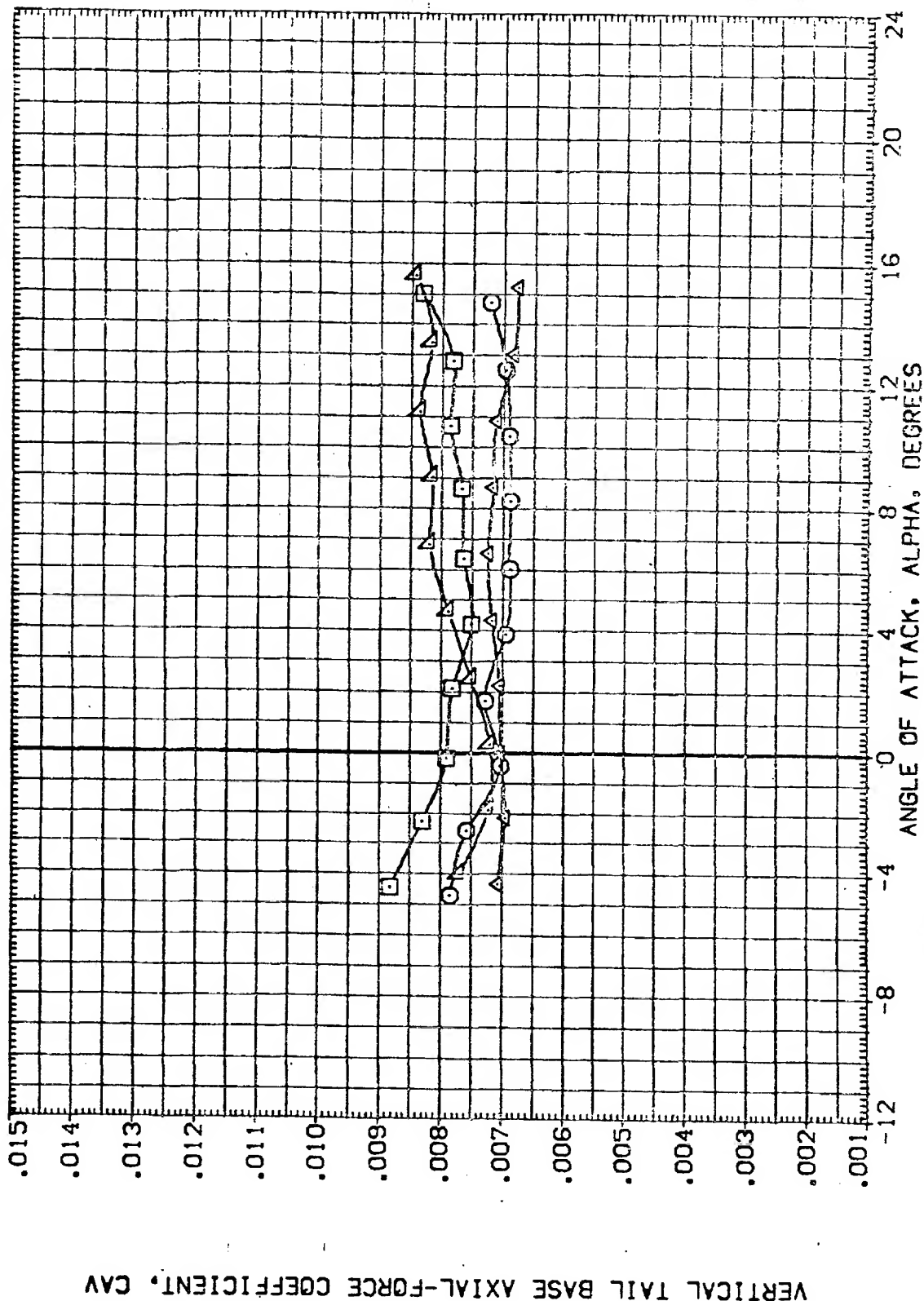


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
{BER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{BER003}	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
{BER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
{BER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{BER013}	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

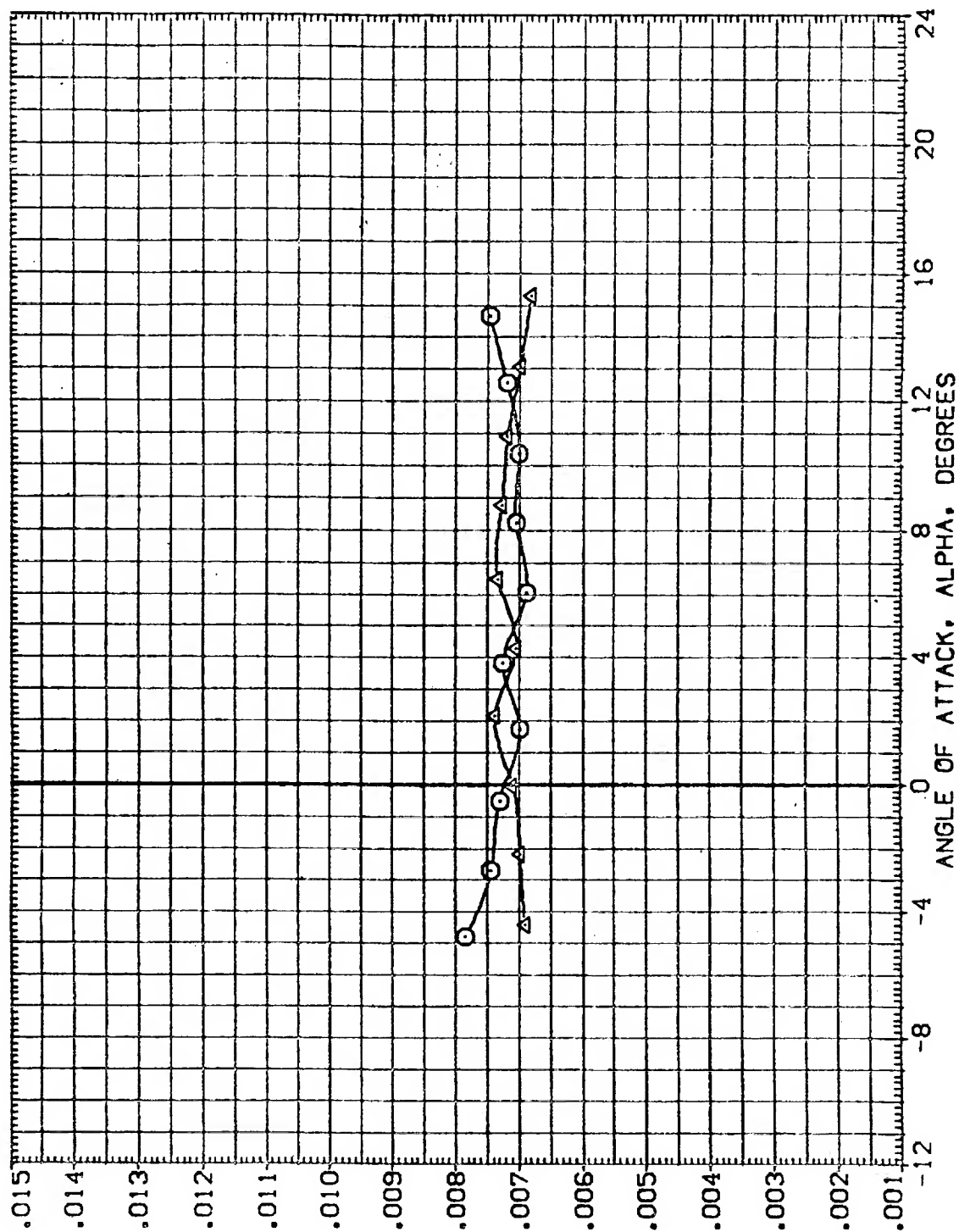


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

[C]MACH = .75

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 R5 V81)-STRUT+DUM STING

(BER003) ARC 66-709 0A59 0A11A-(N24 R5 V81)-STRUT+DUM STING

(BER009) ARC 66-709 0A59 0A11A-(N24 R5 V81)-STRUT

(BER012) ARC 66-709 0A59 0A11A-(R5 V81)-STRUT

(BER013) ARC 66-709 0A59 0A11A-(R5 V81)-STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5355 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

ZMRP .0000 IN.

YMRP -.3750 IN.

SCALE .0150

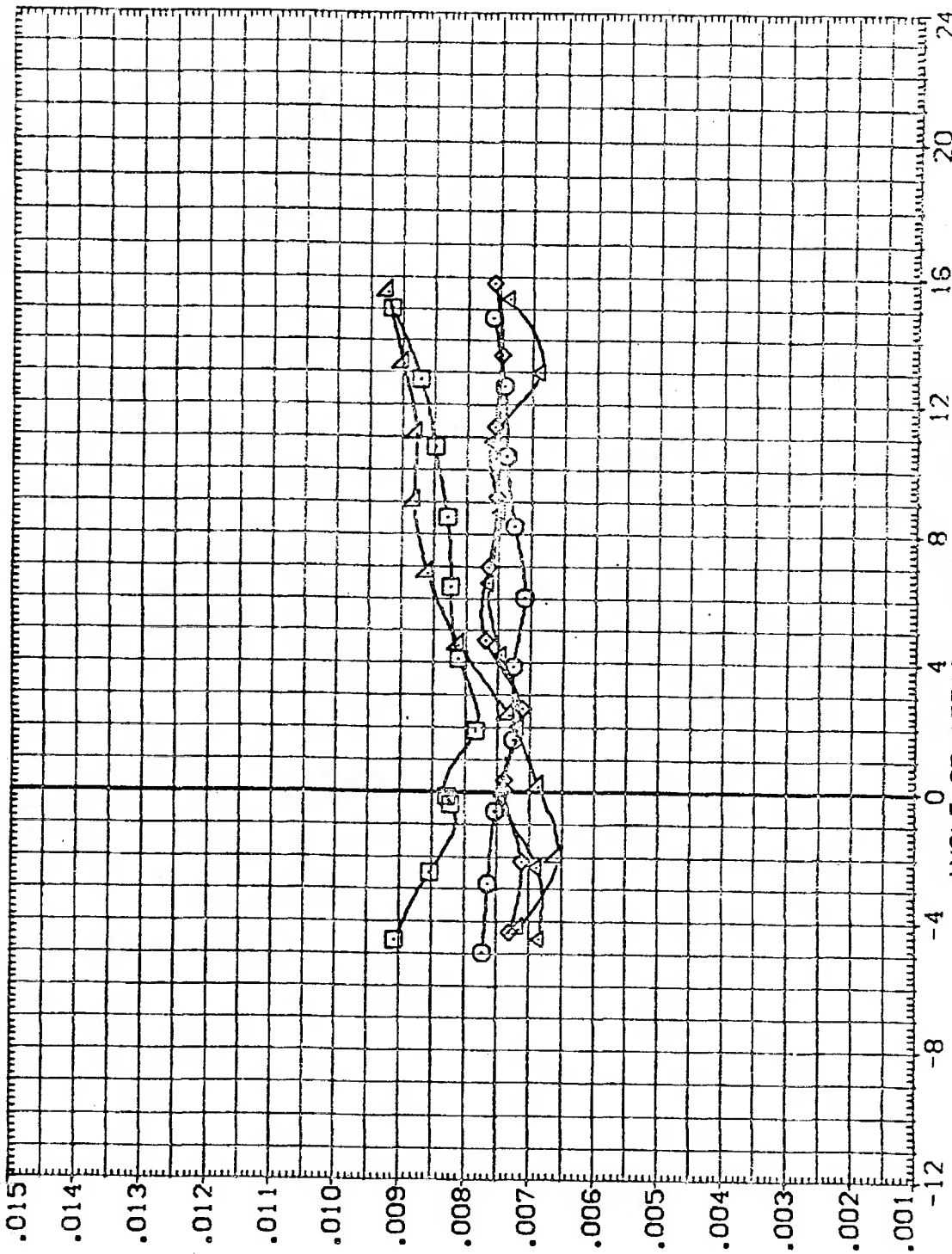


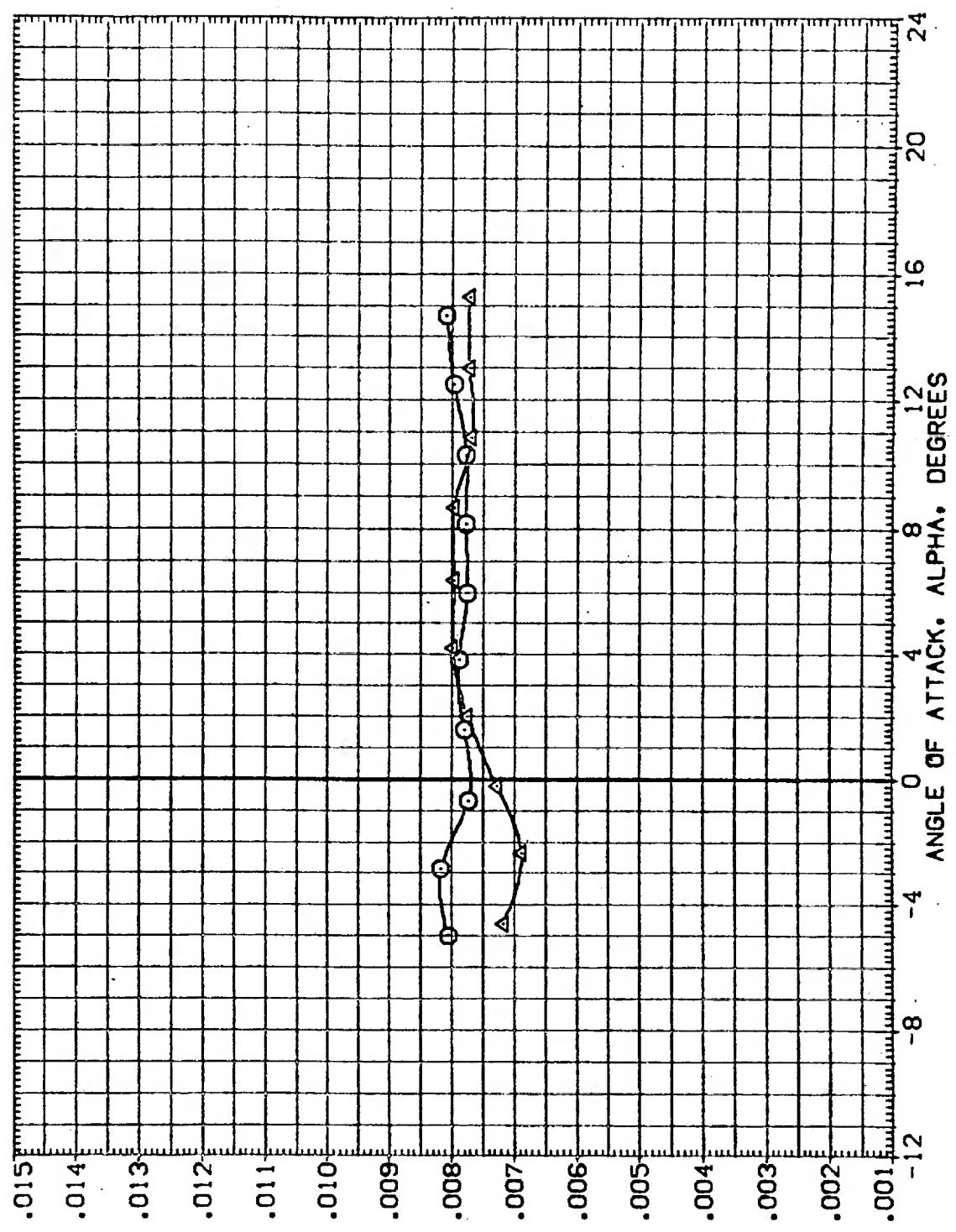
FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CD)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+OUM STNG
 (BER003) DATA NOT AVAILABLE
 (BER009) DATA NOT AVAILABLE
 (BER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 (BER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 15.000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6235 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	□	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUH SING	.000	.000	-11.700	SREF 6053 50 FT.
(BER003)	◇	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUH SING	.000	.000	-11.700	LREF 5935 FT.
(BER009)	△	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	○	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	△	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
						SCALE .0150

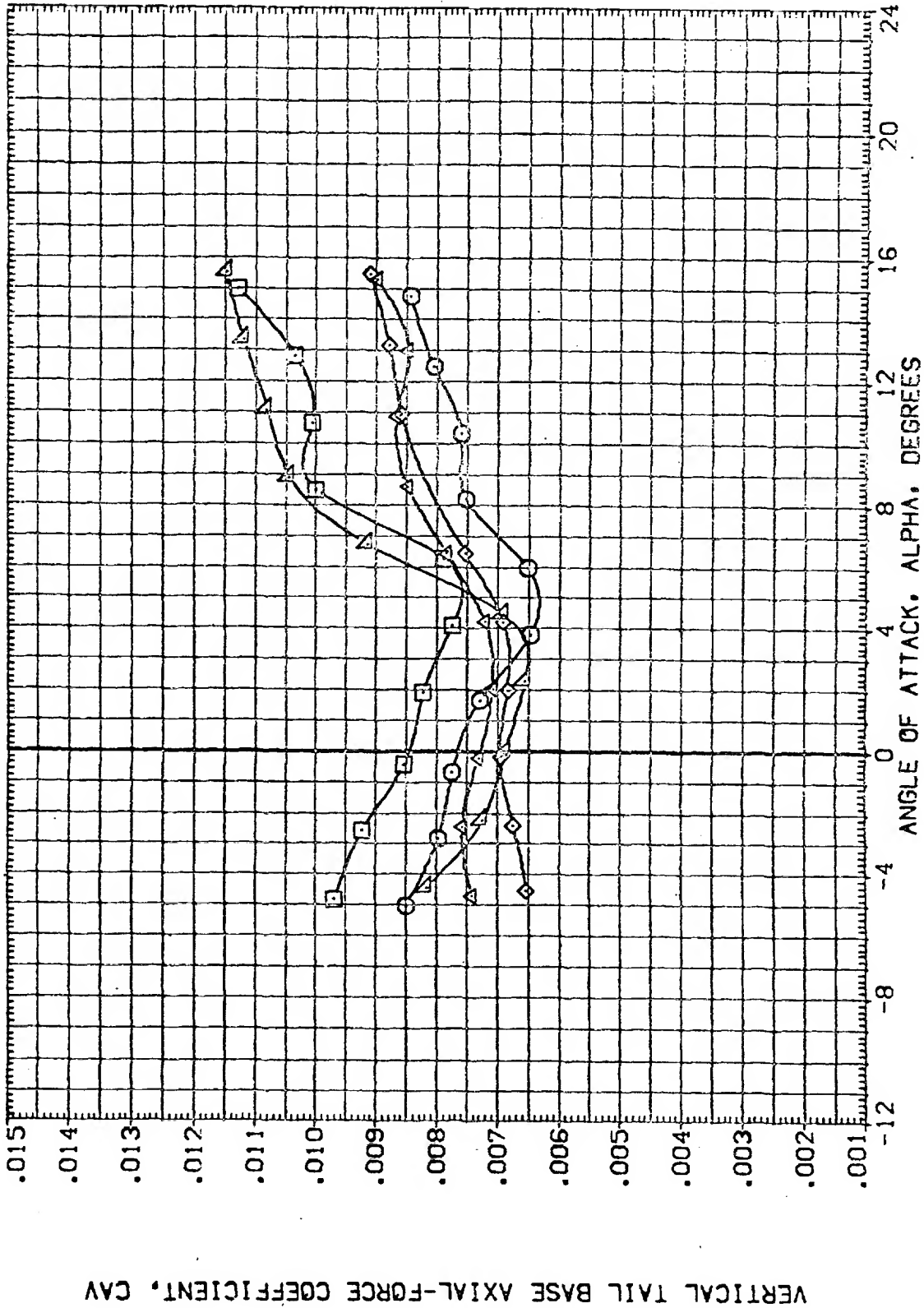


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

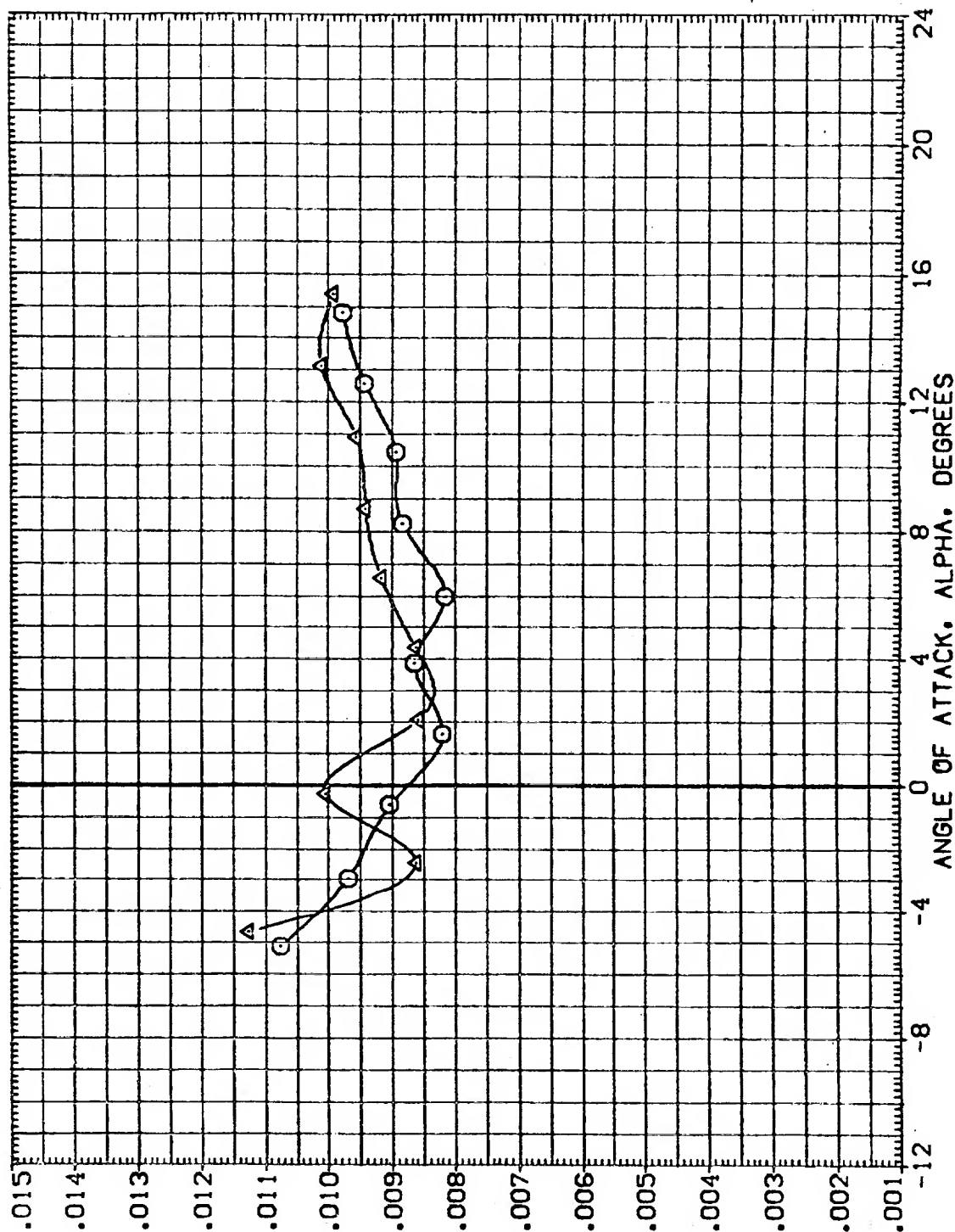
(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(BER001)	ARC 66-709 D459 D411A-(N24 R5 V8)+STRUT+QJM STNG	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	BREF 1.1710 FT.
(BER012)	ARC 66-709 D459 D411A-(R5 V8)+STRUT	XMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	YMRP -.0000 IN.
		ZMRP -.3750 IN.
		SCALE .0150

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700



VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QA59 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 QA59 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QA59 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QA59 CA11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6235 IN.
(BER013)	ARC 66-709 QA59 CA11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP .0000 IN.
					SCALE .0150

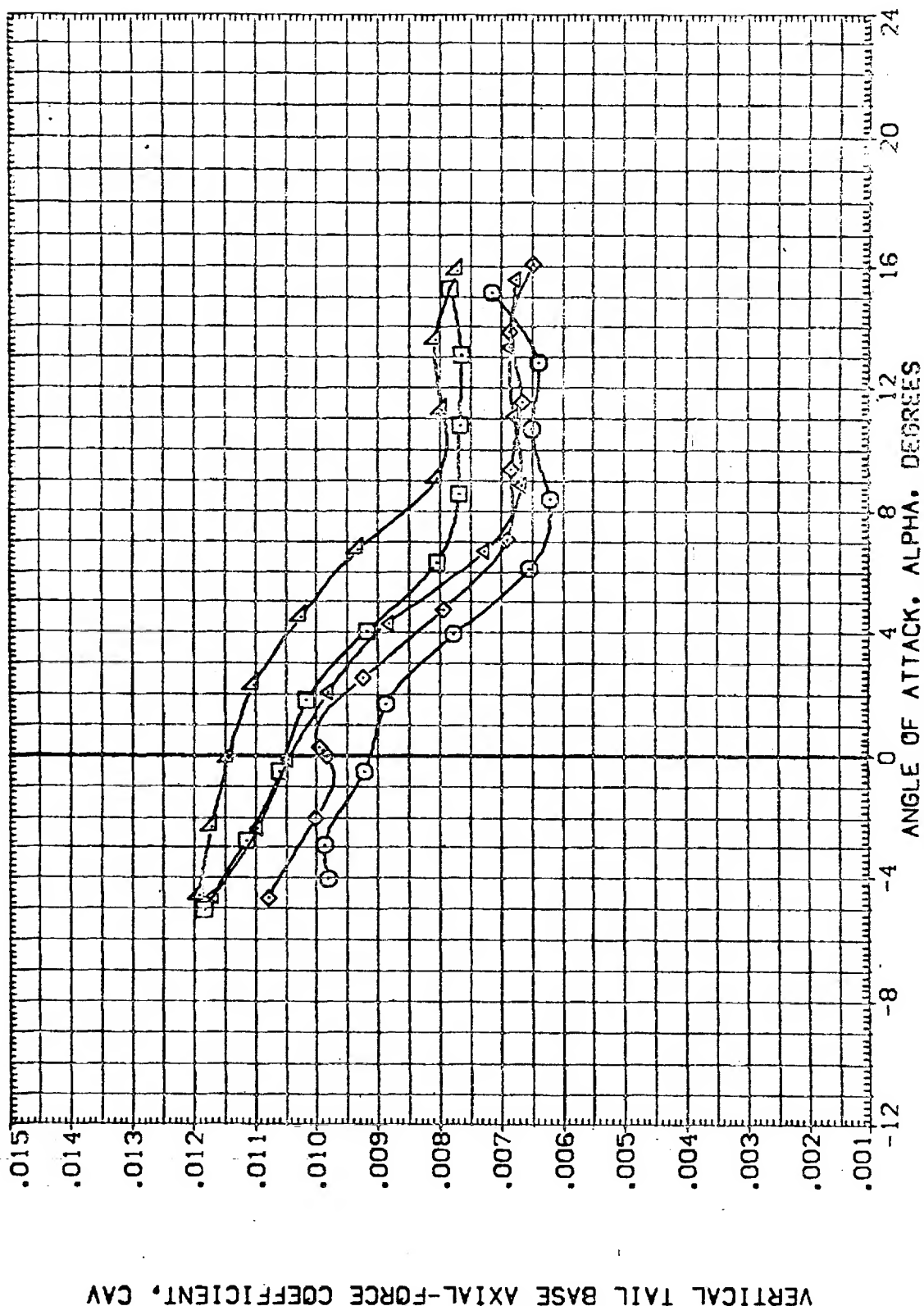


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(BER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 .000 -11.700

(BER003) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 15.000 -11.700

(BER009) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT .000 .000 -11.700

(BER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 .000 -11.700

(BER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

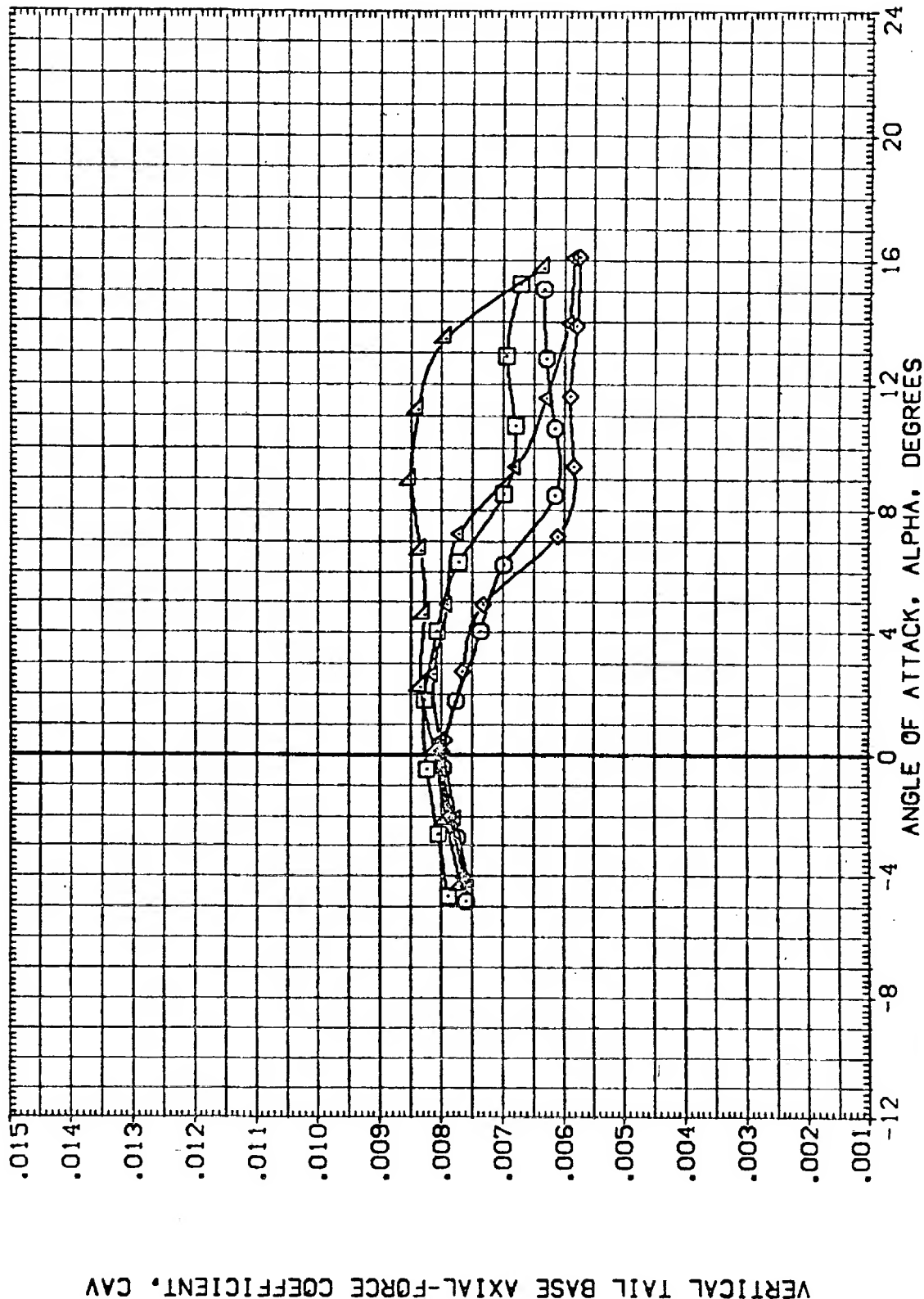


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

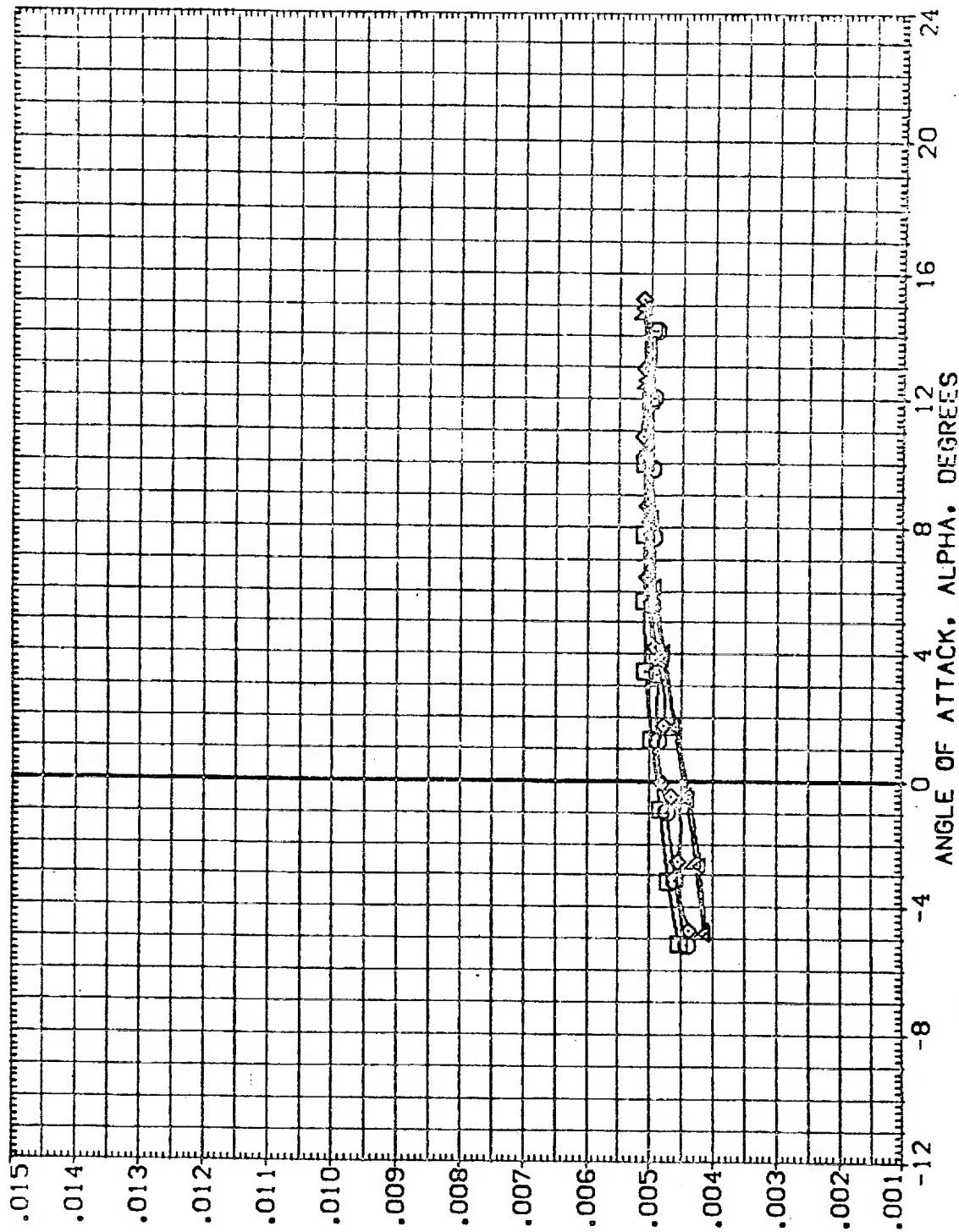


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

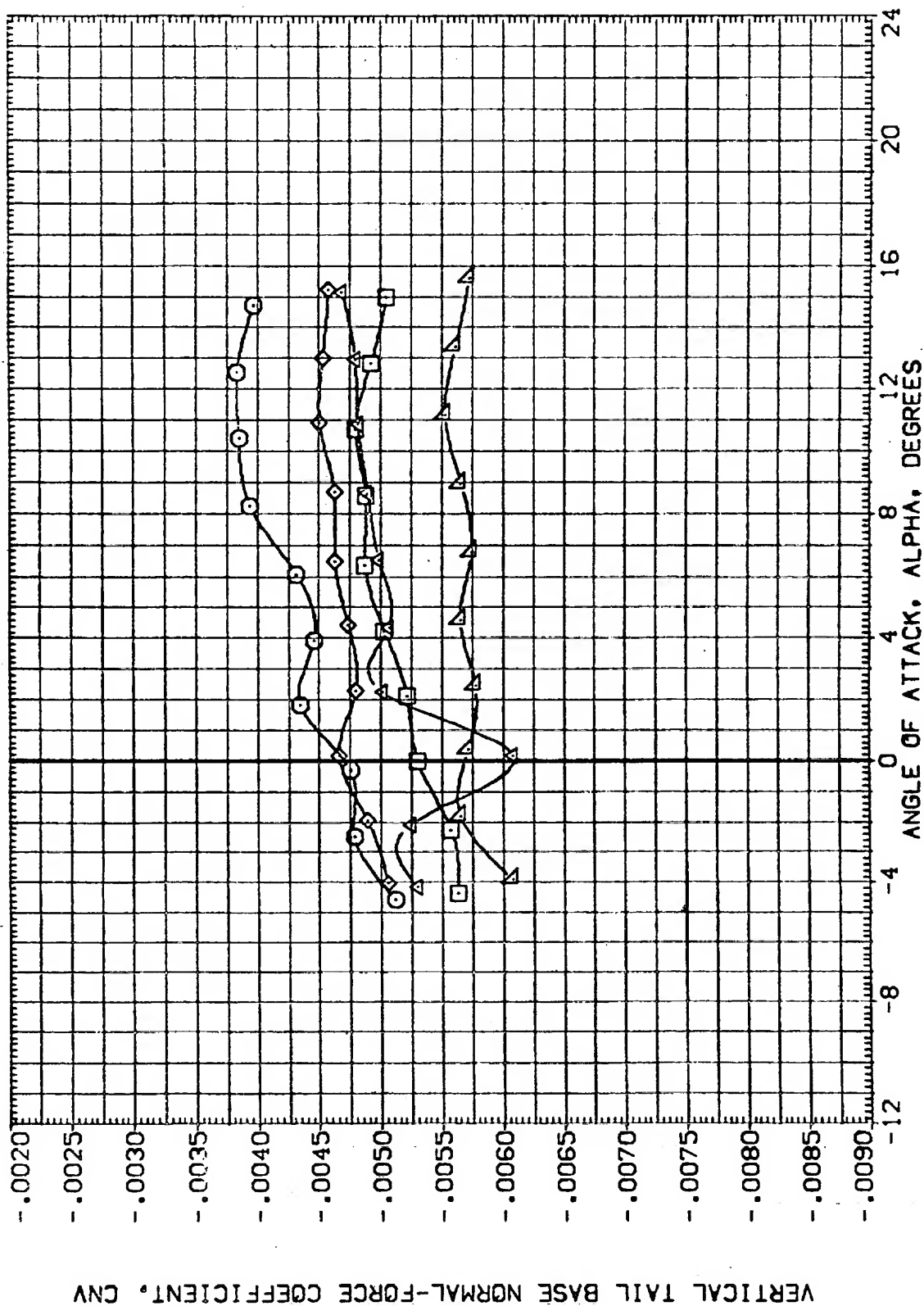


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	80% LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DA59 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 DA59 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 DA59 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 DA59 DA11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

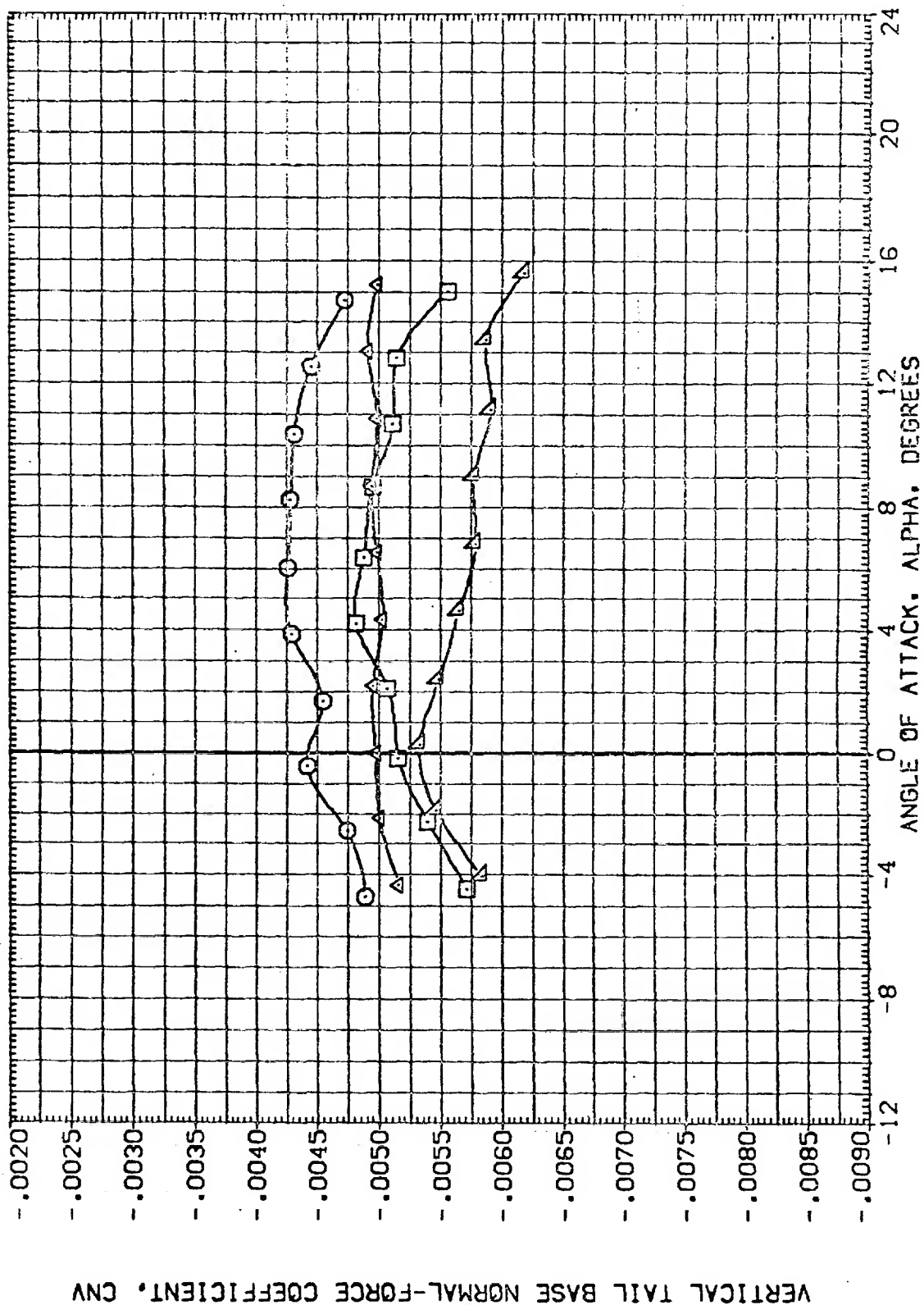


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(8)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80% LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DASS DAI1A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

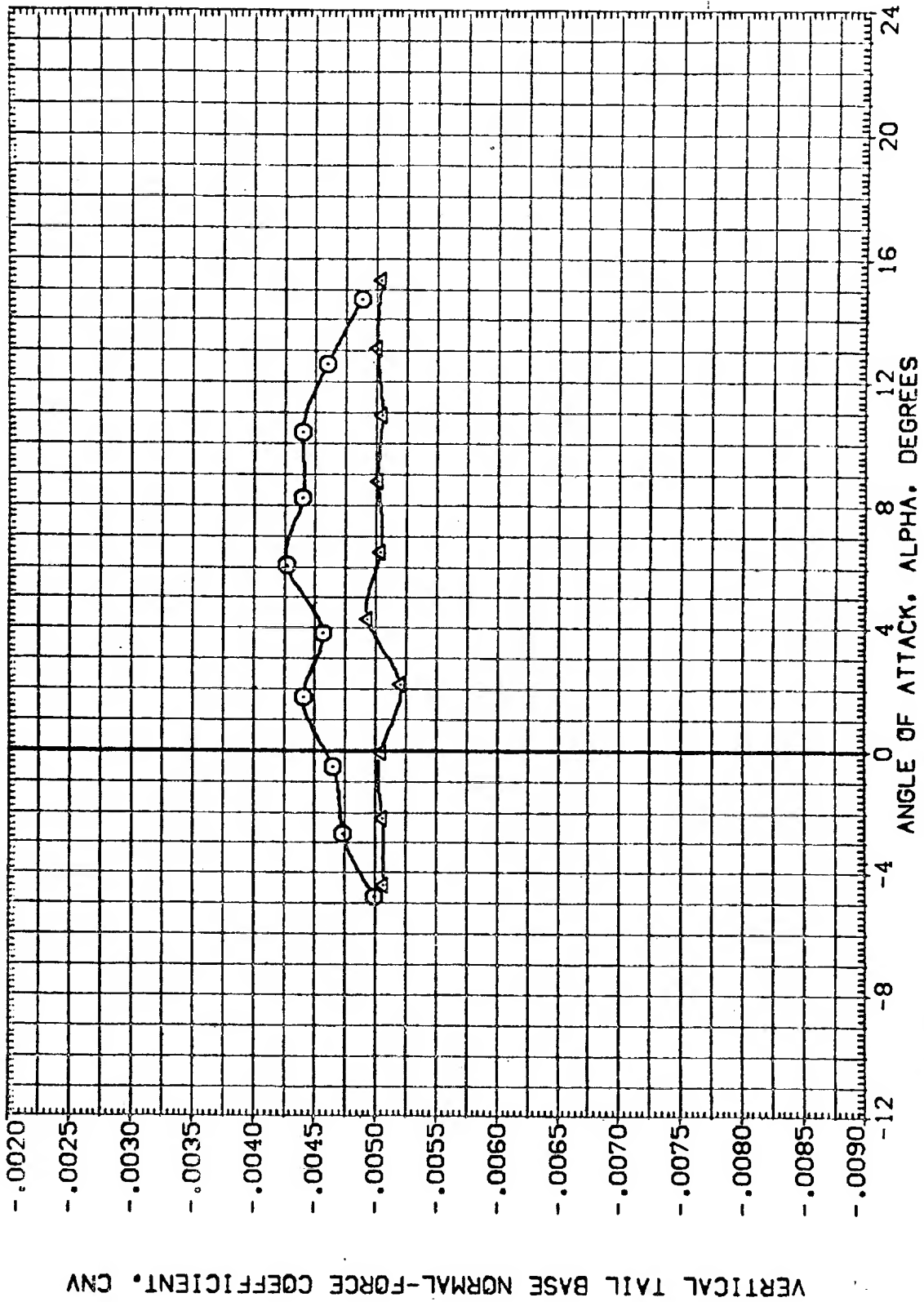


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

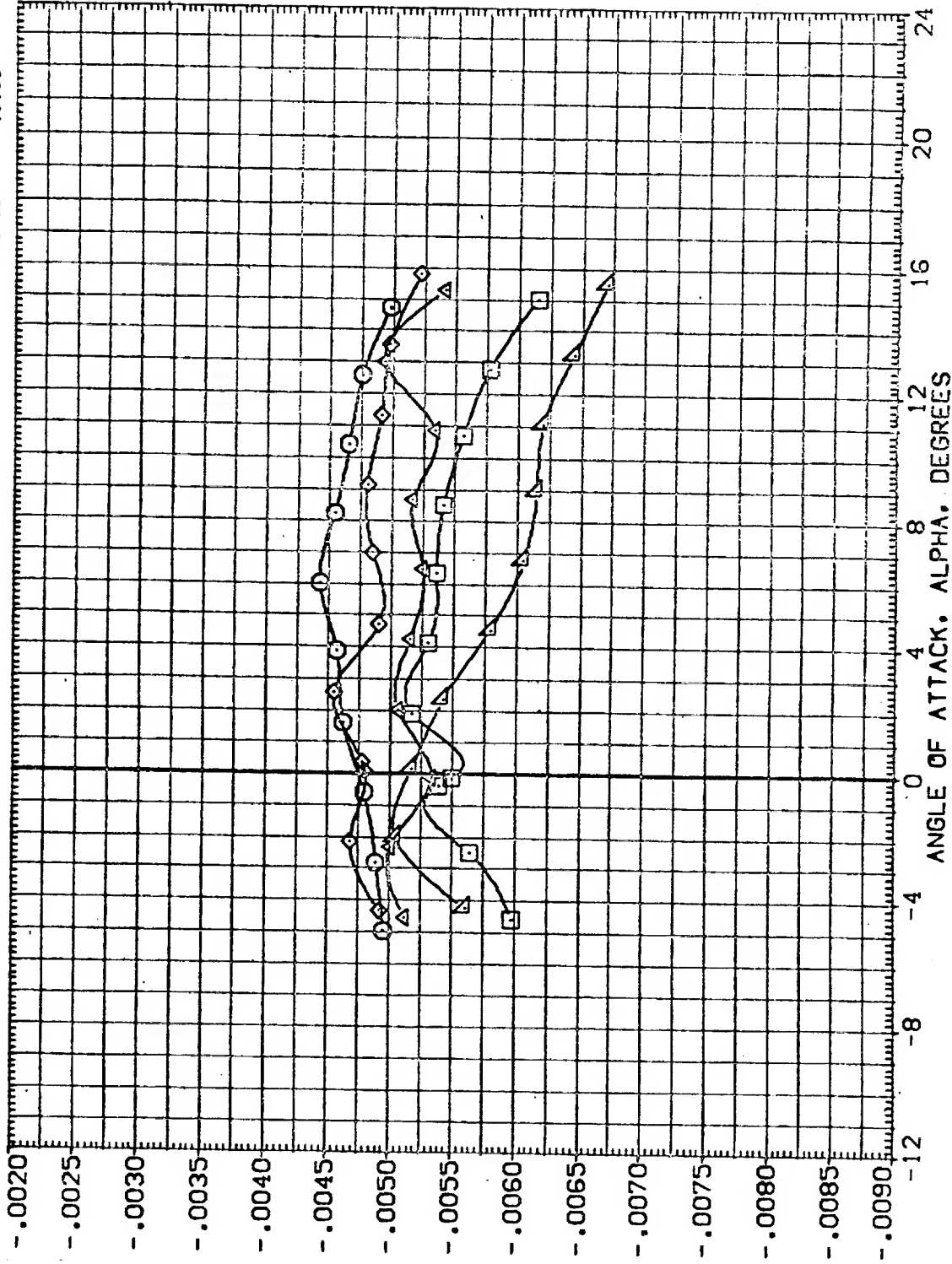
(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001)  ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 (BER003)  ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 (BER009)  ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 (BER012)  ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 (BER013)  ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA .000
 ELEVON .000
 BDELAP -11.700
 15.000 -11.700
 .000 -11.700
 .000 -11.700
 .000 -11.700
 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



VERTICAL TAIL BASE NORMAL-FORCE COEFFICIENT, CNV

FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 QAS9 QAI1A-(N24 R5 V8)+STRUT+DUM STNG

(BER003) DATA NOT AVAILABLE

(BER009) DATA NOT AVAILABLE

(BER012) ARC 66-709 QAS9 QAI1A-(R5 V8)+STRUT

(BER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

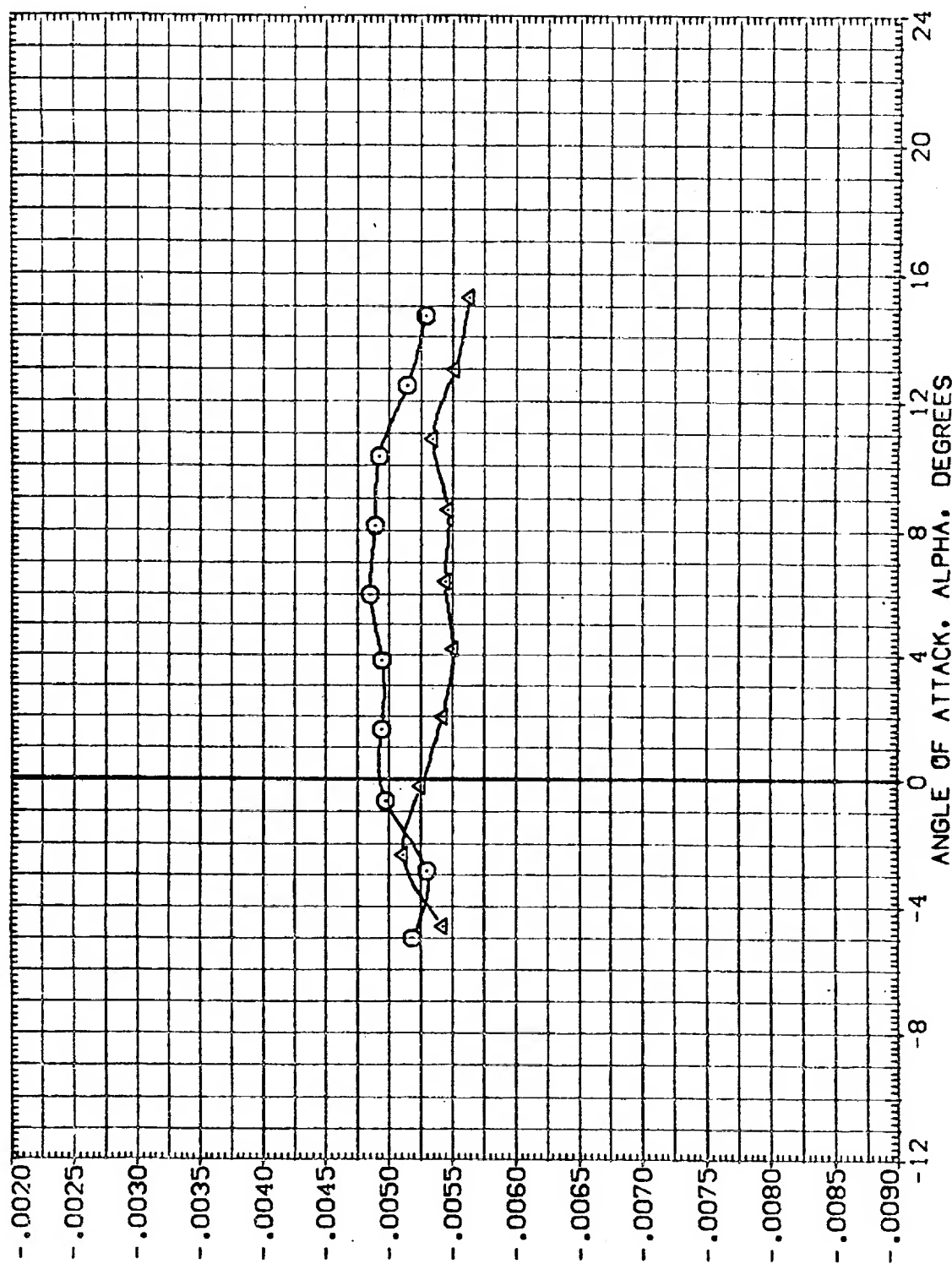


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING

(BER003) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING

(BER009) ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT

(BER012) ARC 66-709 0A59 0A11A-(RS V81+STRUT

(BER013) ARC 66-709 0A59 0A11A-(RS V81+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

15.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

15.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

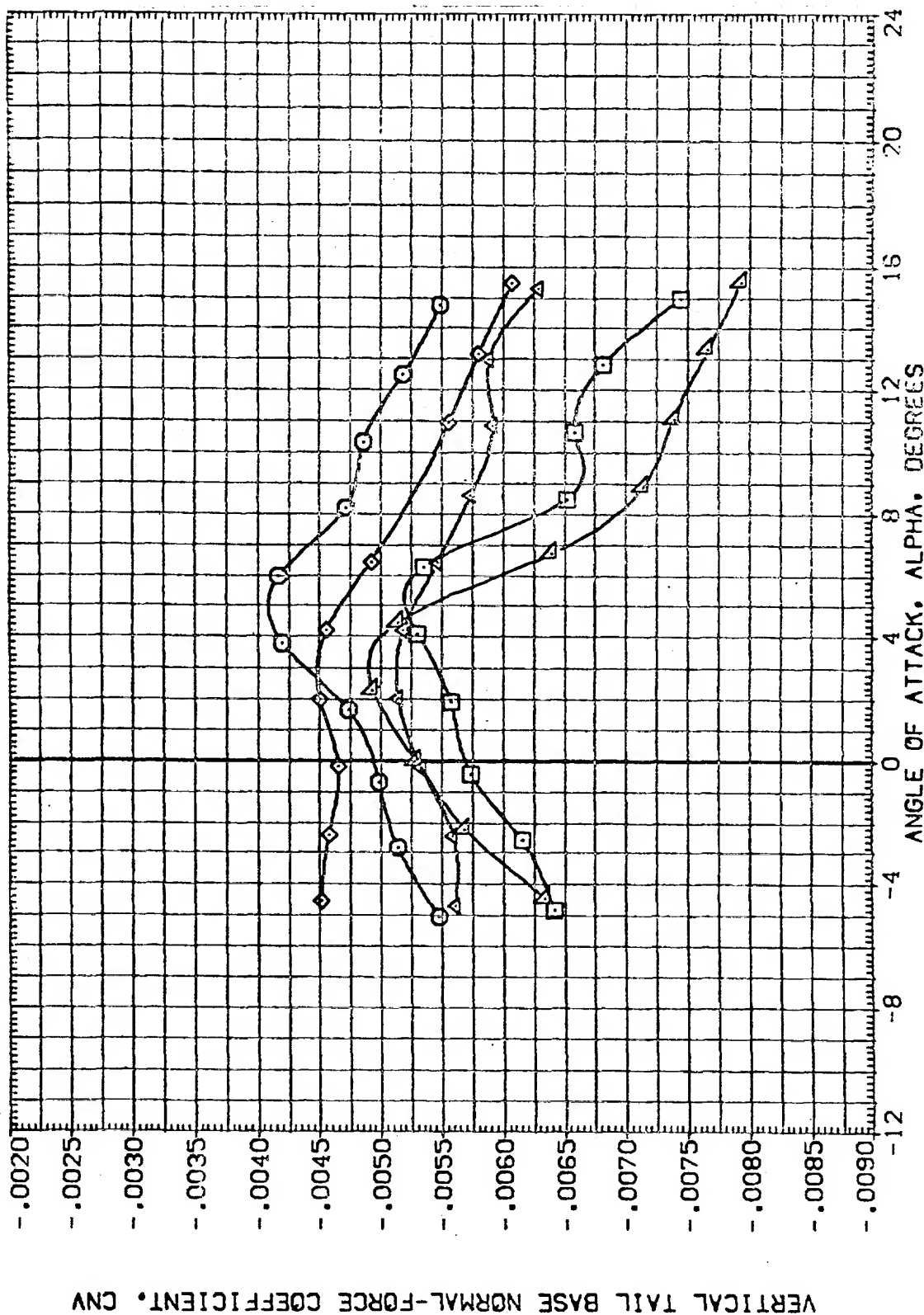


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG

(BER003) DATA NOT AVAILABLE

(BER009) DATA NOT AVAILABLE

(BER012) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

(BER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

15.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

15.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

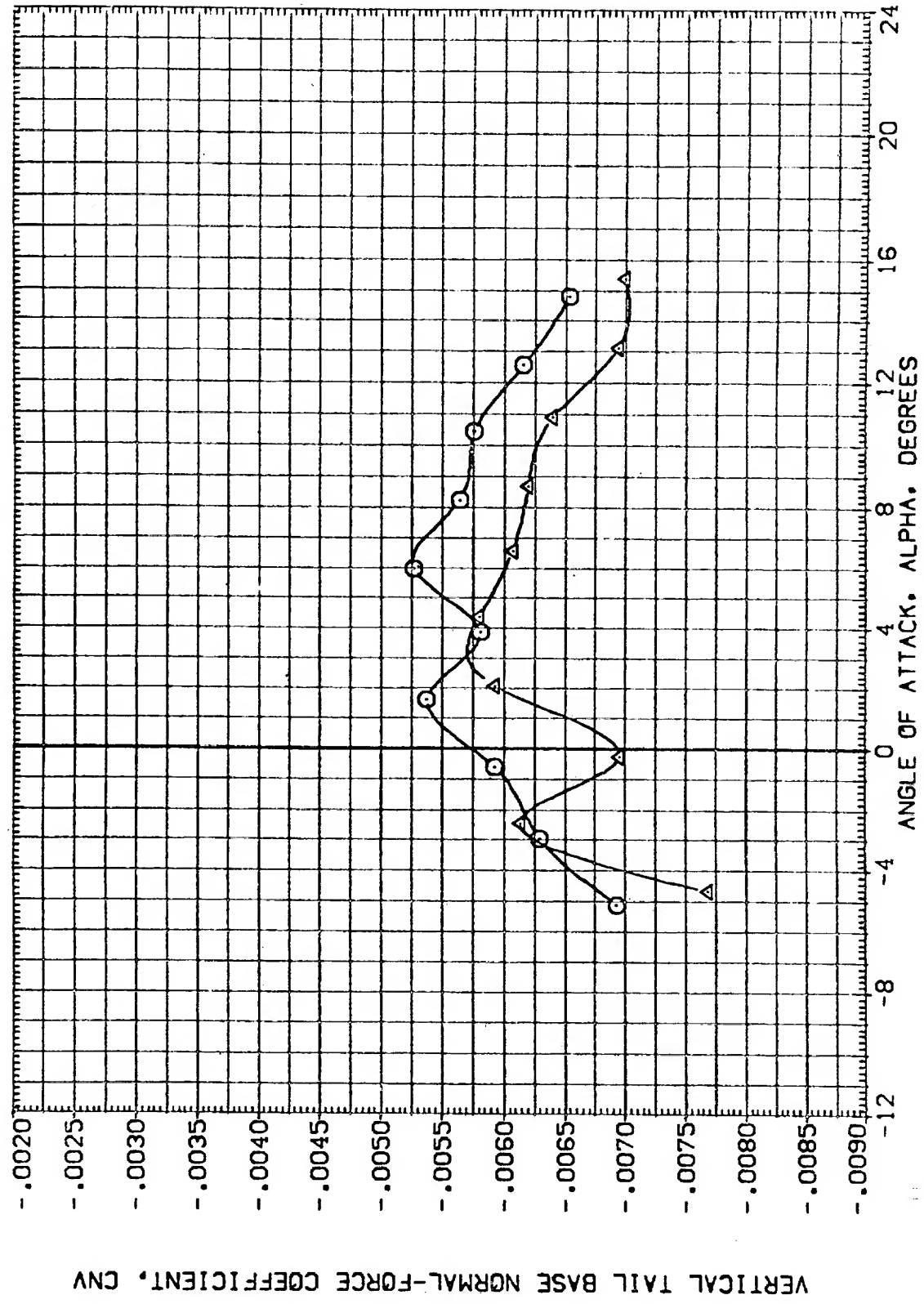


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709	QA59	QA11A-(N24	RS	V8)	+STRUT+DUM	STNG
ARC 66-709	QA59	QA11A-(N24	RS	V8)	+STRUT+DUM	STNG
ARC 66-709	QA59	QA11A-(N24	RS	V8)	+STRUT	
ARC 66-709	QA59	QA11A-(R5	V8)	+STRUT		
ARC 66-709	QA59	QA11A-(R5	V8)	+STRUT		

DATA SET SYMBOL

(BER001)	□
(BER003)	◇
(BER005)	△
(BER012)	○
(BER013)	×

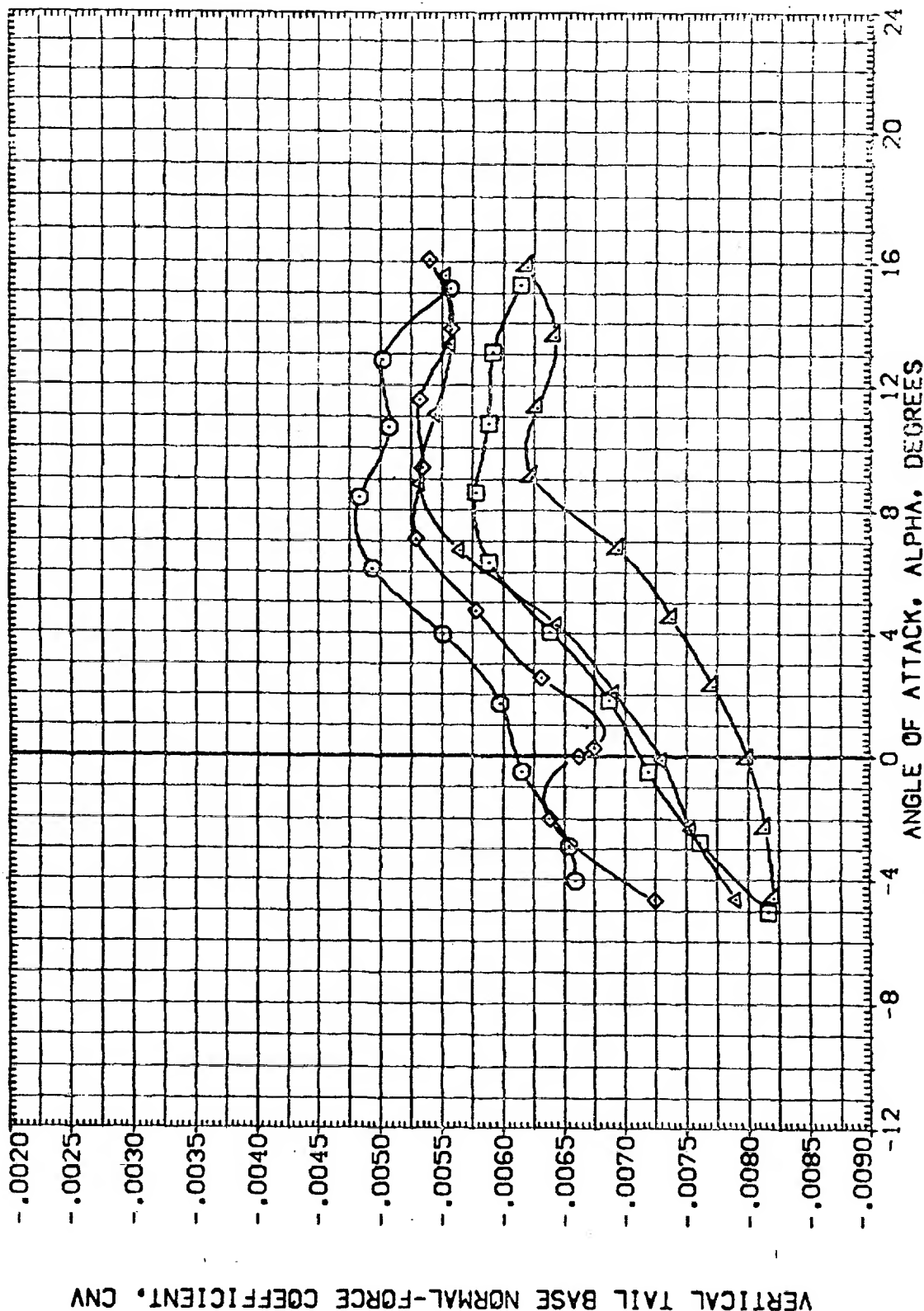


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

CH3MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

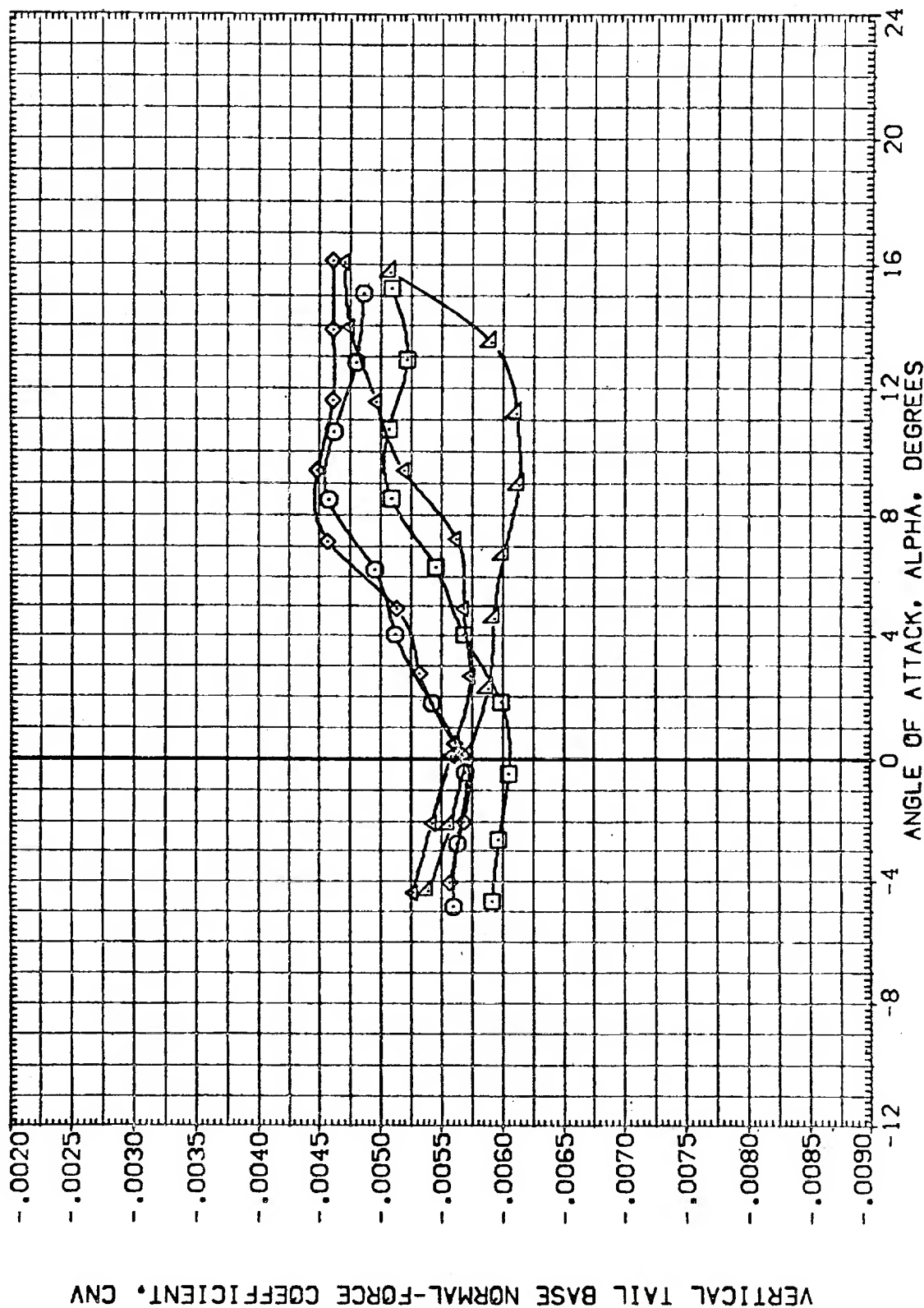


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

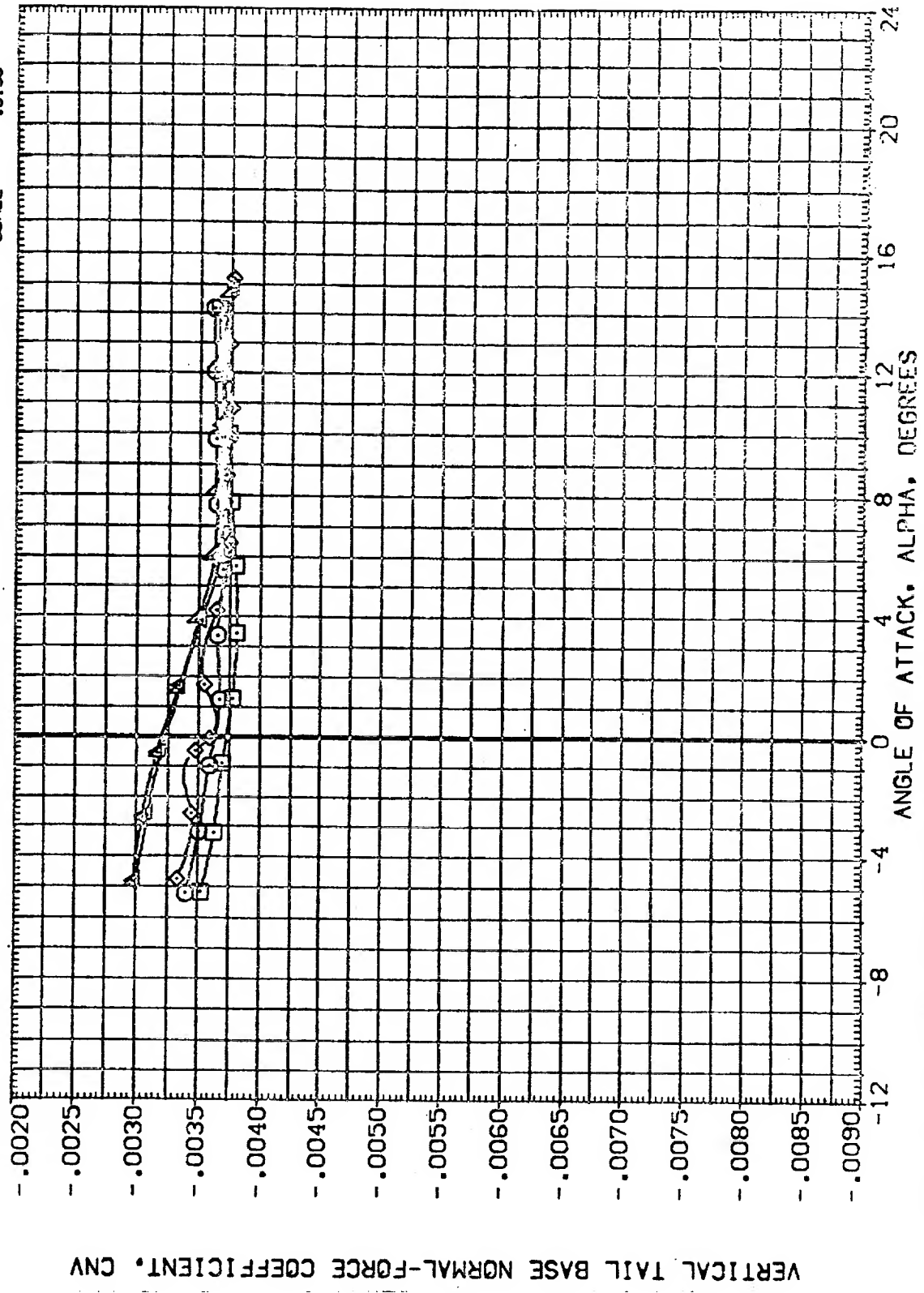


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

REFERENCE INFORMATION

SREF	.6053	SG.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	BOFLAP
.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700
.000	-11.700

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24	RS	V81+STRUT+DUM	STNG
ARC 66-709	0A59	0A11A-(N24	RS	V81+STRUT+DUM	STNG
ARC 66-709	0A59	0A11A-(N24	RS	V81+STRUT	
ARC 66-709	0A59	0A11A-(RS	V81+STRUT		
ARC 66-709	0A59	0A11A-(RS	V81+STRUT		

DATA SET SYMBOL

(BER001)	□
(BER003)	○
(BER009)	△
(BER012)	◇
(BER013)	×

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

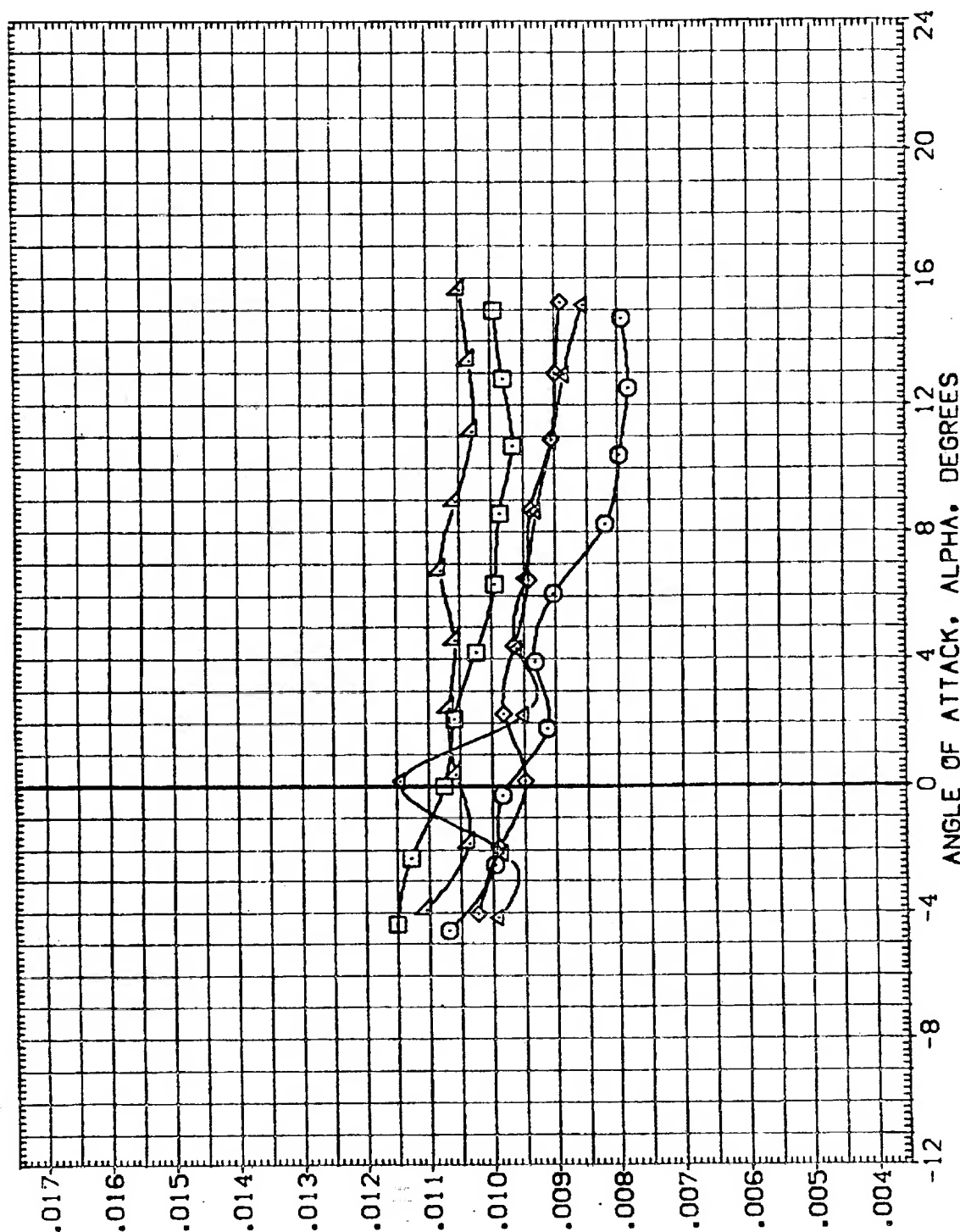


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL

{BER001}
{BER003}
{BER009}
{BER012}
{BER013}

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
DATA NOT AVAILABLE
ARC 66-709 0A59 0A11A-(RS V8)+STRUT
ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA

.000
.000
.000
.000
.000

ELEVON

.000
15.000
.000
.000
15.000

80FLAP

-11.700
-11.700
-11.700
-11.700
-11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

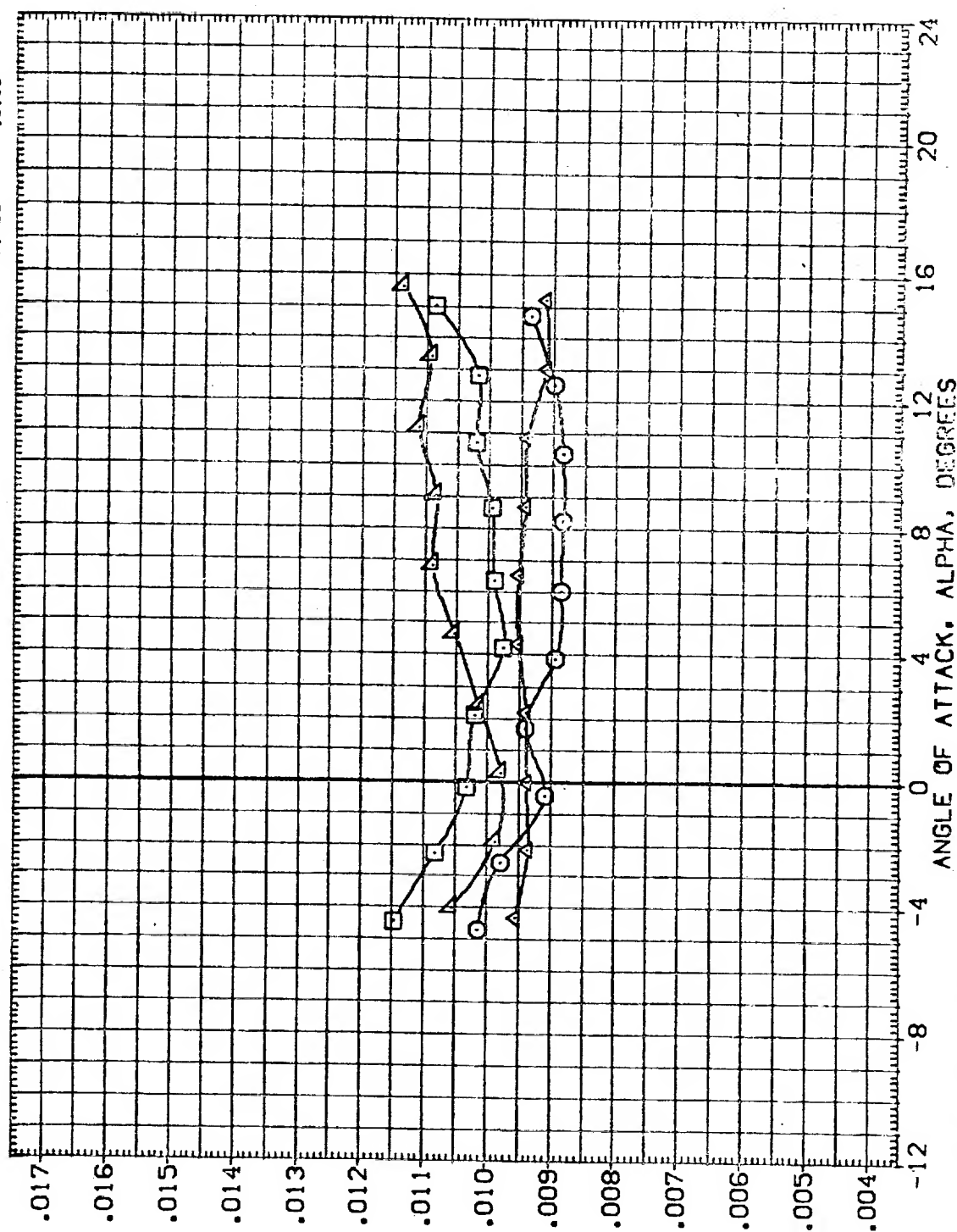


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(BJMACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(BER001)	ARC 66-709 DAS9 DA11A-(N24 R5 V81)+STRUT+DUM STNG	SREF	6053	50 FT.
(BER003)	DATA NOT AVAILABLE	LREF	5935	FT.
(BER009)	DATA NOT AVAILABLE	BREF	1.1710	IN.
(BER012)	ARC 66-709 DAS9 DA11A-(R5 V81)+STRUT	YMRP	12.6255	IN.
(BER013)	DATA NOT AVAILABLE	ZMRP	-.3750	IN.
		SCALE		.0150

BETA ELEVON BDFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

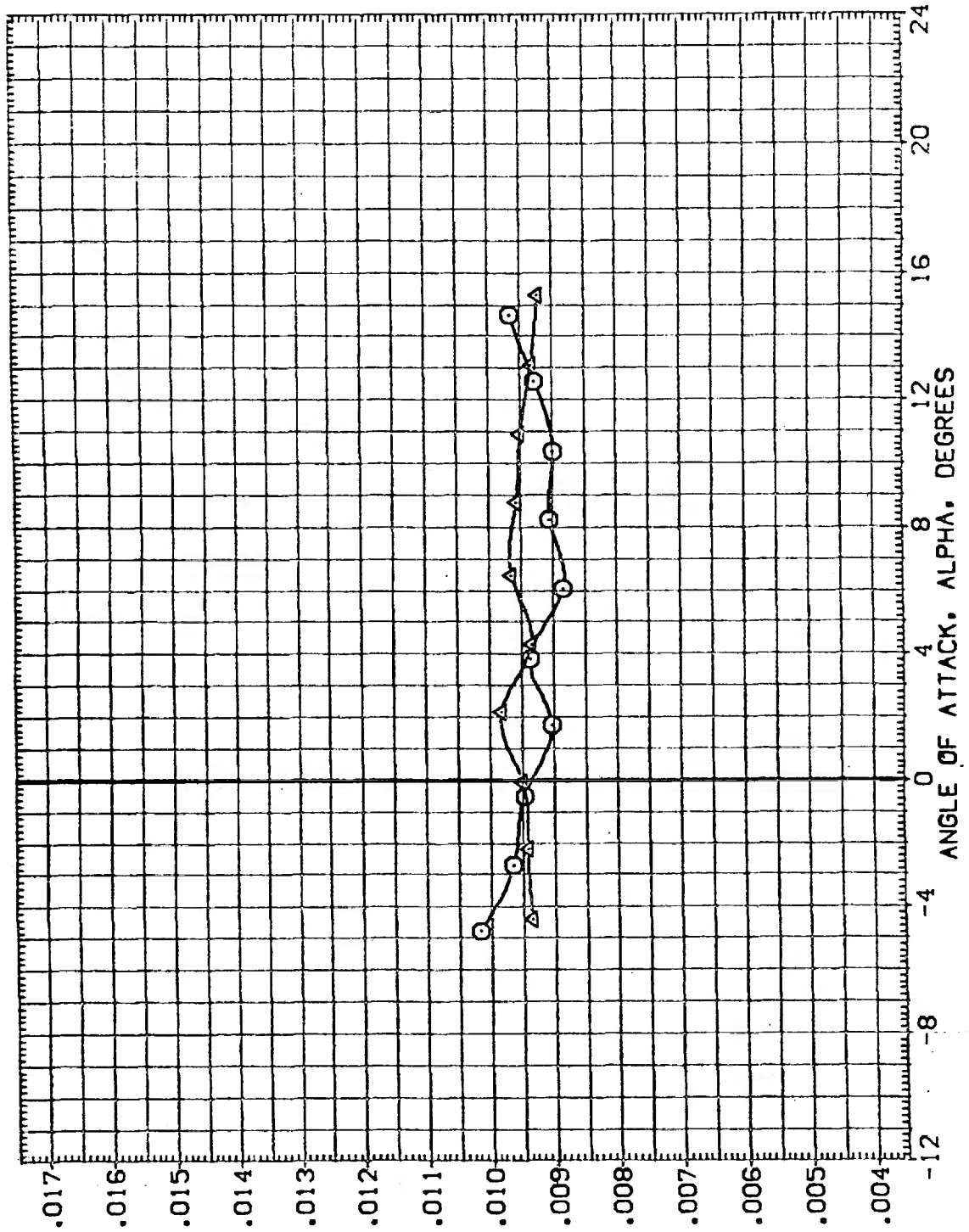


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

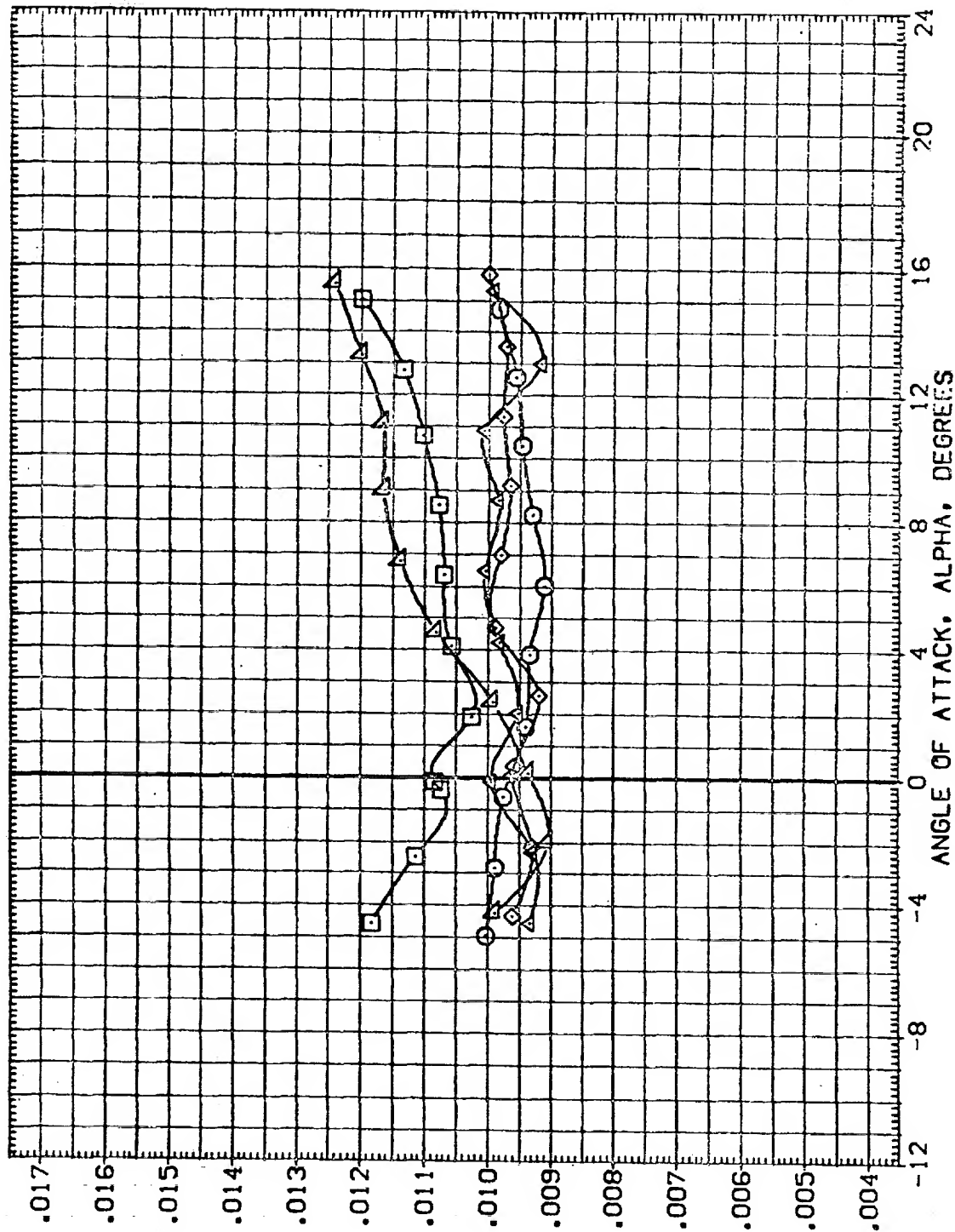


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 DASS 0A11A-(N24 R5 V8)+STRUT+DUM STNG

(BER003) DATA NOT AVAILABLE

(BER009) DATA NOT AVAILABLE

(BER012) ARC 66-709 DASS 0A11A-(R5 V8)+STRUT

(BER013) DATA NOT AVAILABLE

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF 6053 50. FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

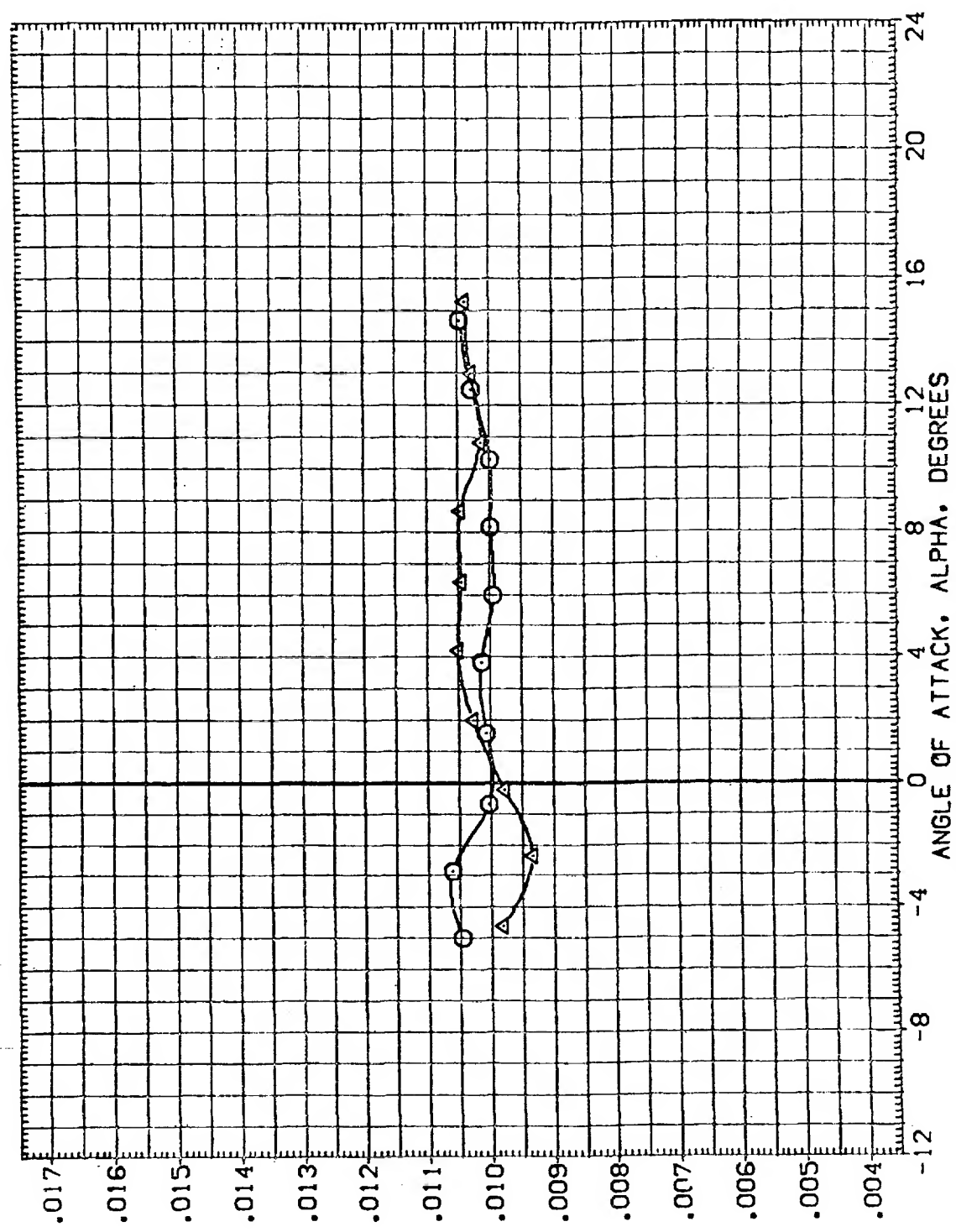


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(EJMACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

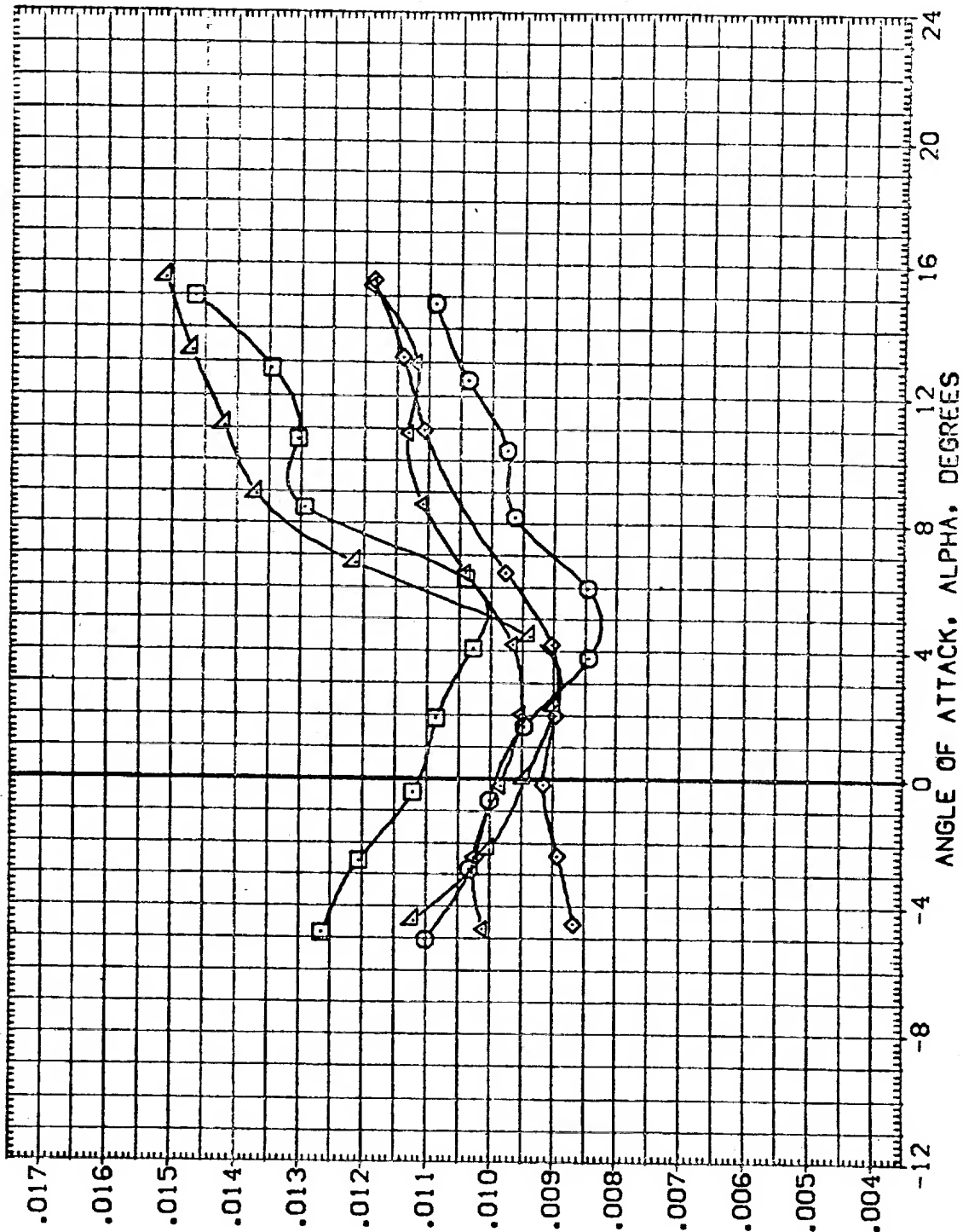


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	BREF 1.1710 IN.
(BER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	XMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	YMRP .0000 IN.
		ZMRP -.3750 IN.
		SCALE .0150

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

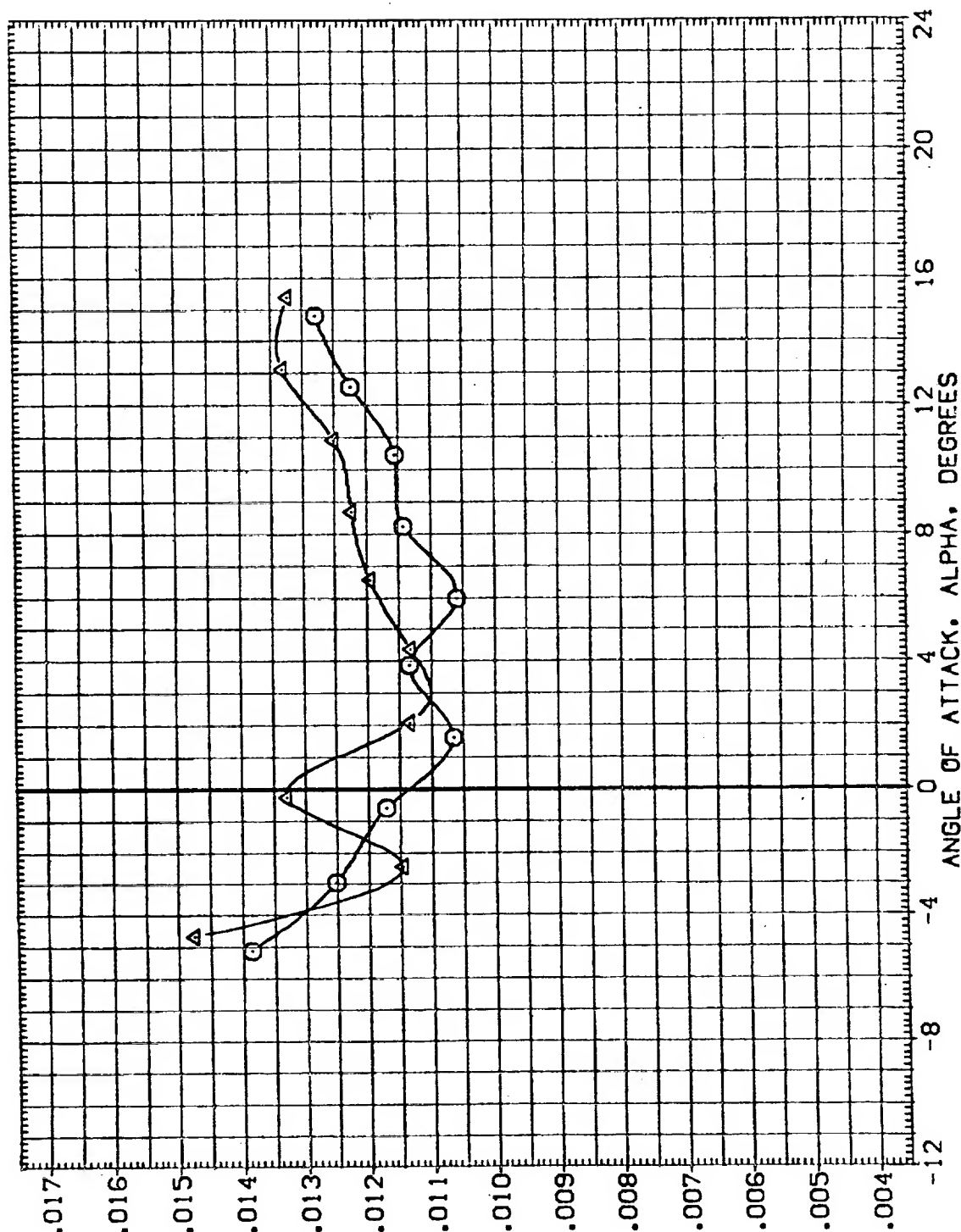


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL

CONFIGURATION	DESCRIPTION
ARC 66-709 0A59	0A11A-[N24 R
ARC 66-709 0A59	0A11A-[N24 R
ARC 66-709 0A59	0A11A-[N24 R
ARC 66-709 0A59	0A11A-[R5 V8
ARC 66-709 0A59	0A11A-[R5 V8

```

5 V81+STRUT+DUM STNG STNG
5 V81+STRUT+DUM STNG
5 V81+STRUT
) )+STRUT
)
```

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	15.000	-11.700
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

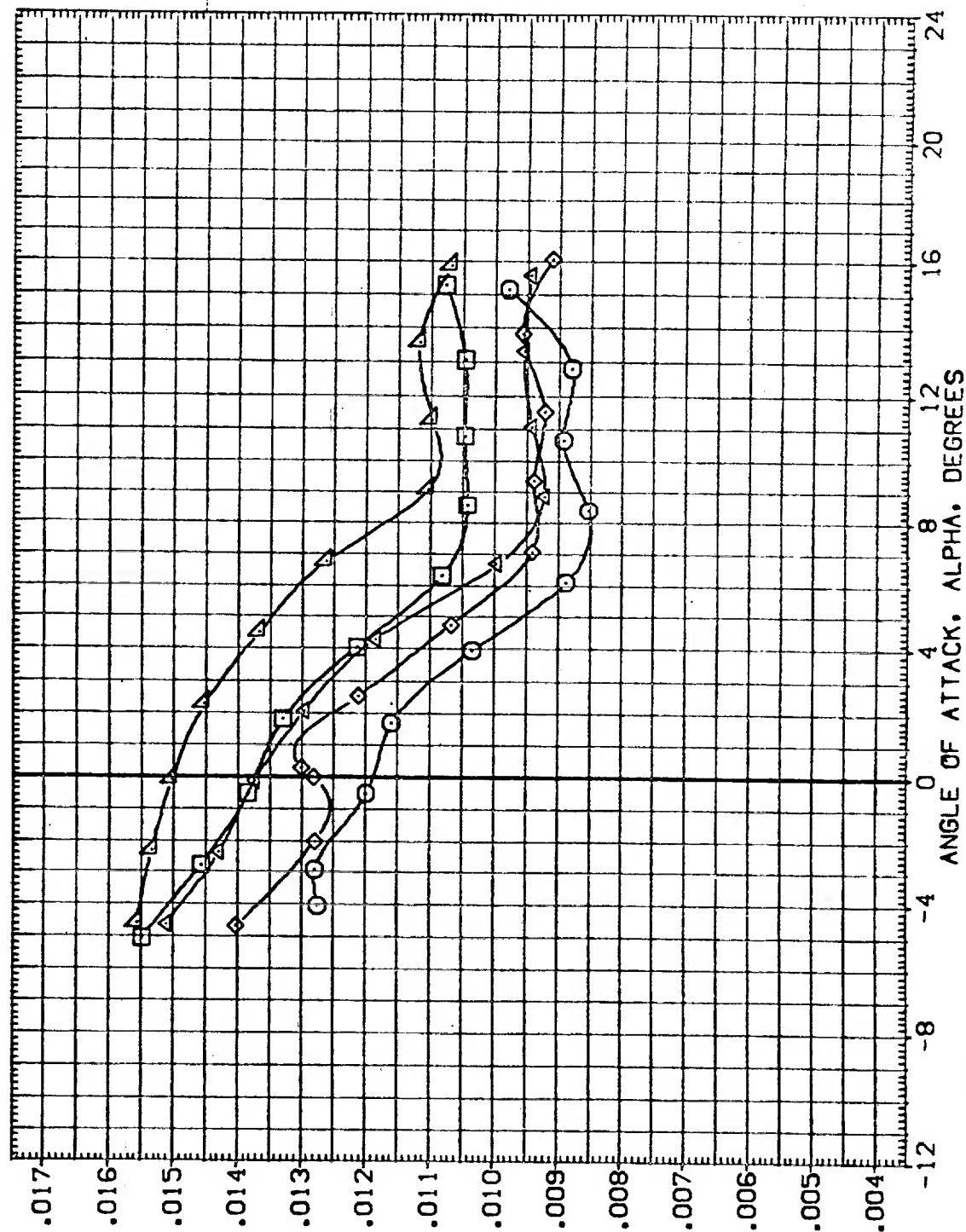


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

$$[CH]MACH = 1.21$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+QJM STING

(BER003) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+QJM STING

(BER009) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT

(BER012) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

(BER013) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

BETA

ELEVON

BOFLAP

.000

.000

-11.700

.000

.000

-11.700

.000

.000

-11.700

.000

.000

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

.6053

.5935

1.1710

12.6255

.0000

-.3750

.0150

SO.FT.

FT.

IN.

IN.

IN.

IN.

IN.

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFWD

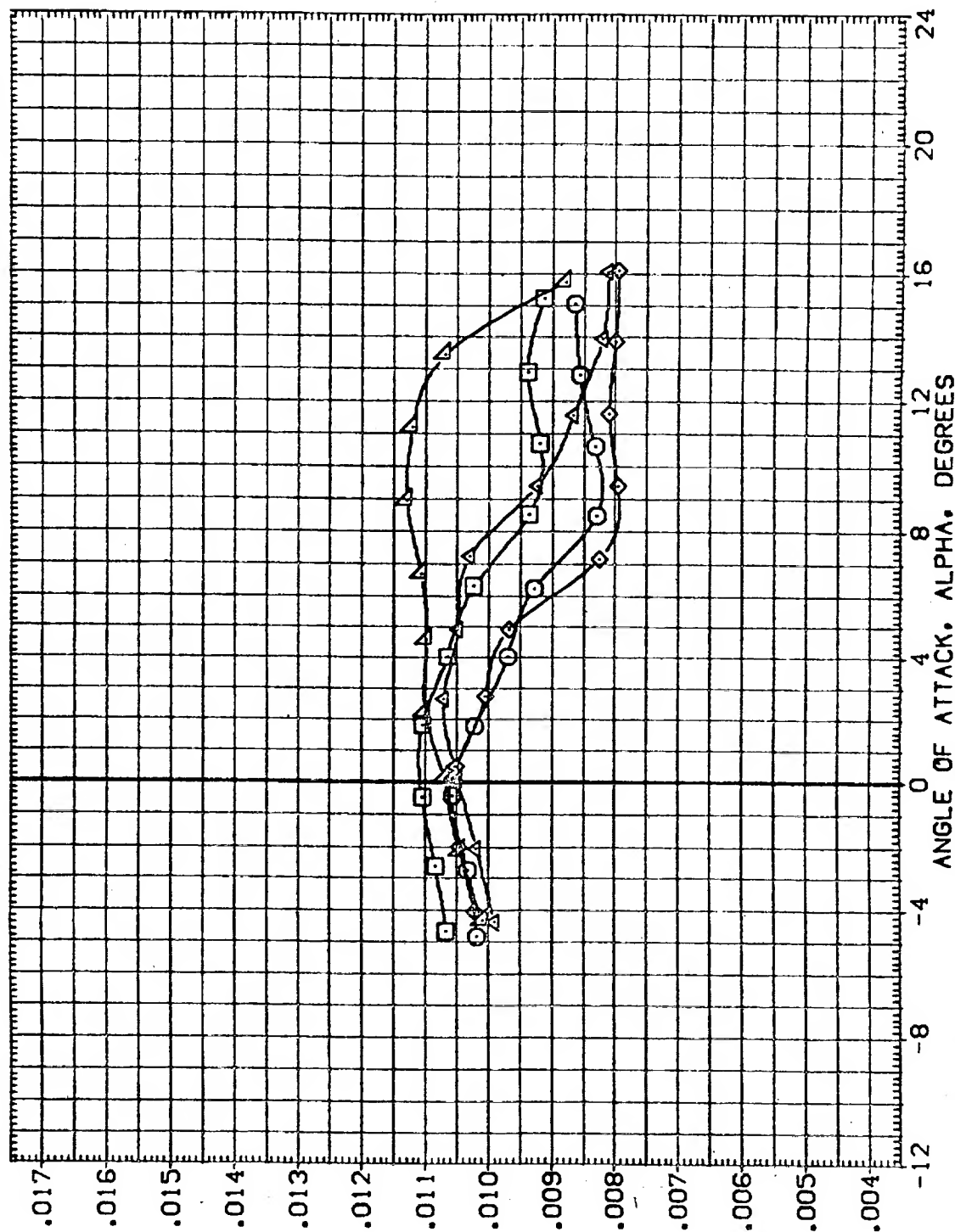


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STAG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

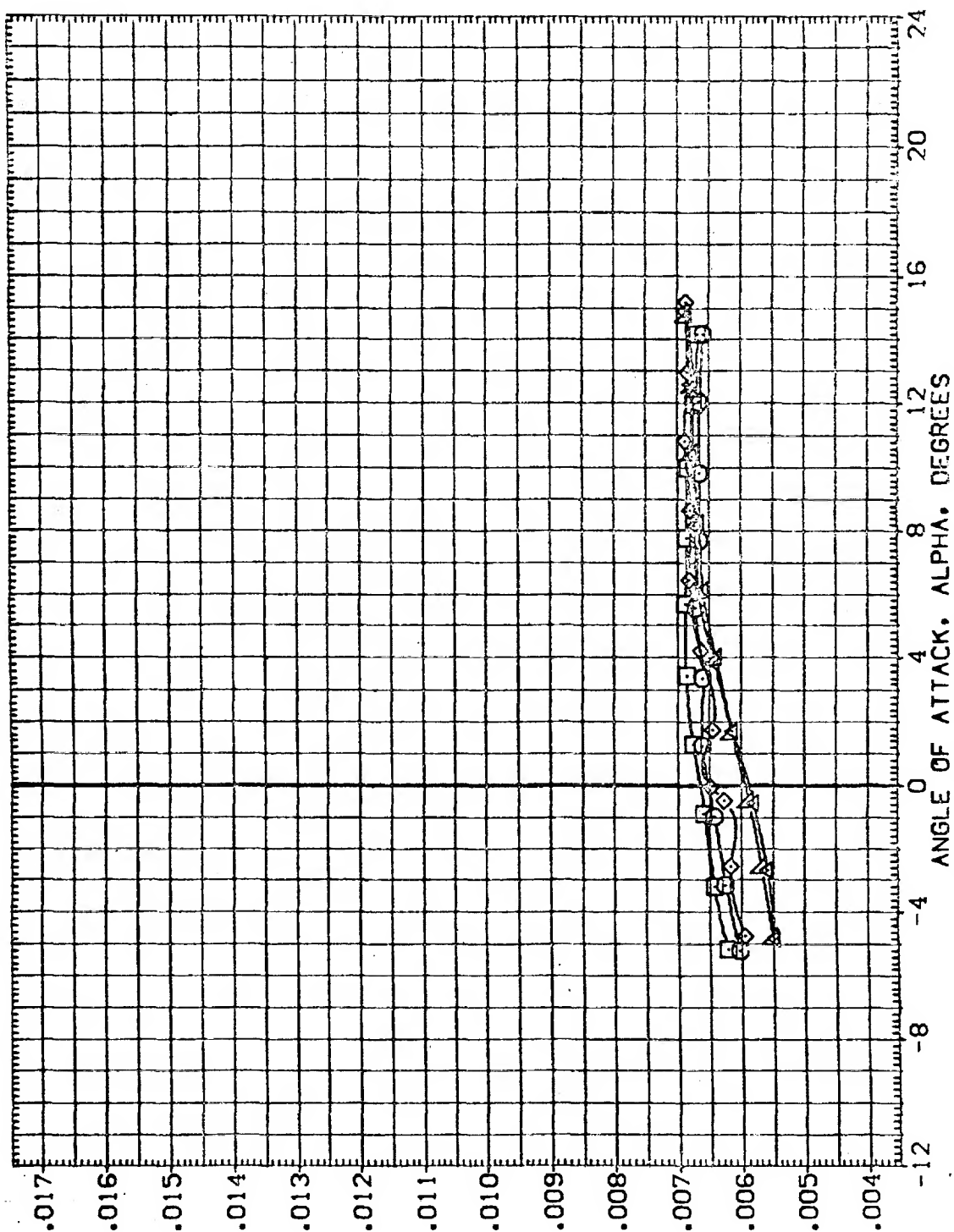


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

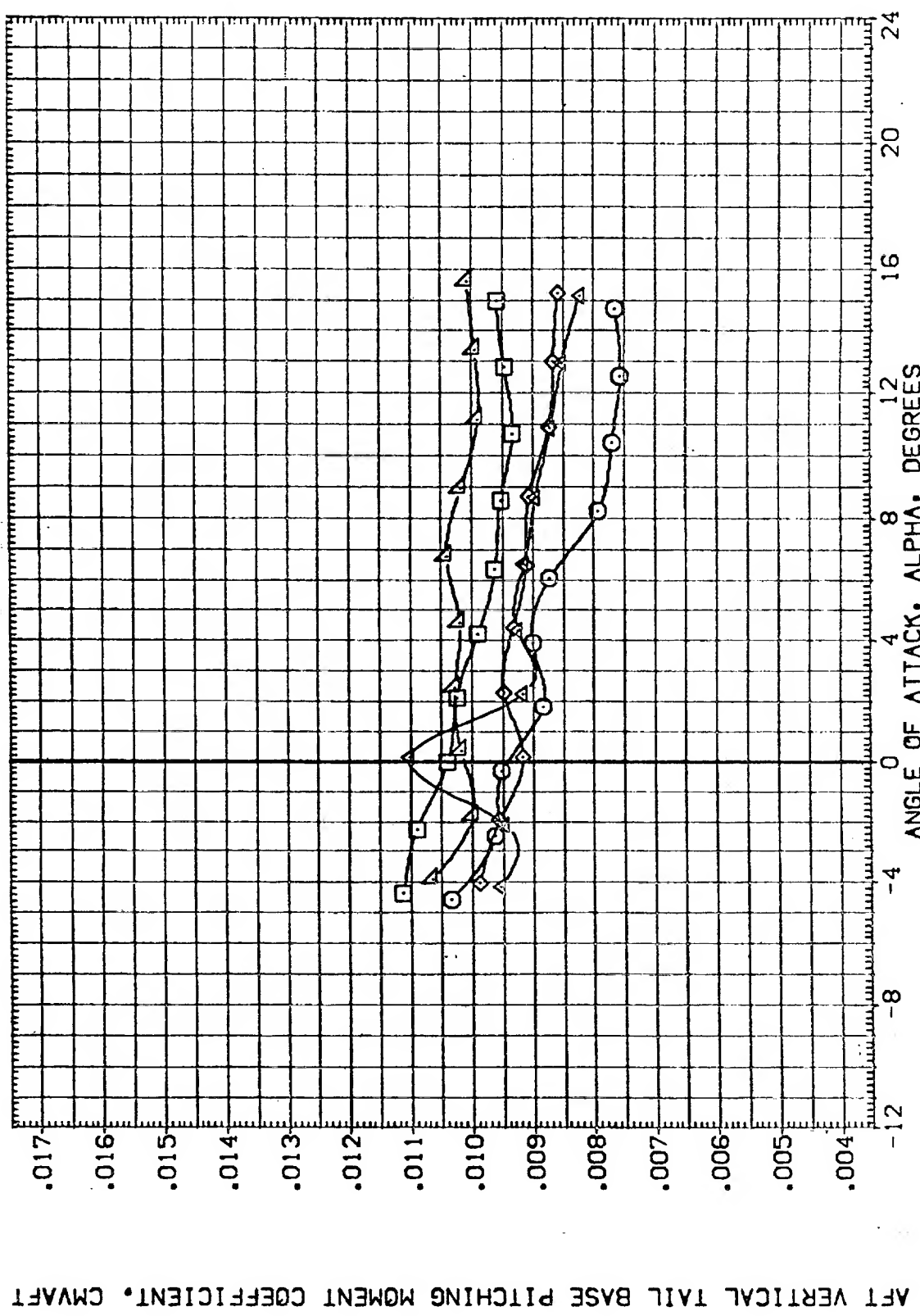


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{BER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SO.FT.
{BER003}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
{BER009}	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
{BER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
{BER013}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

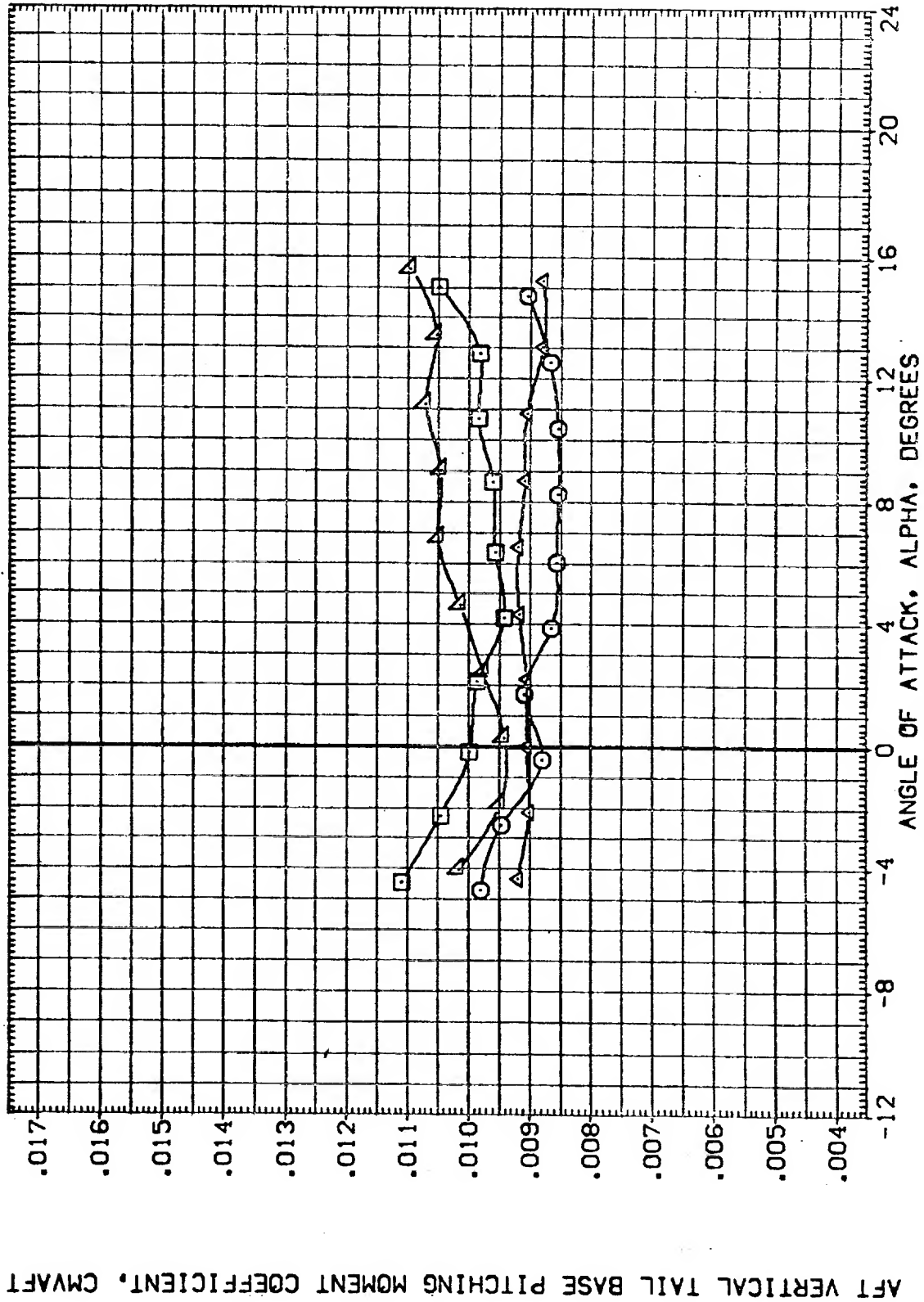


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

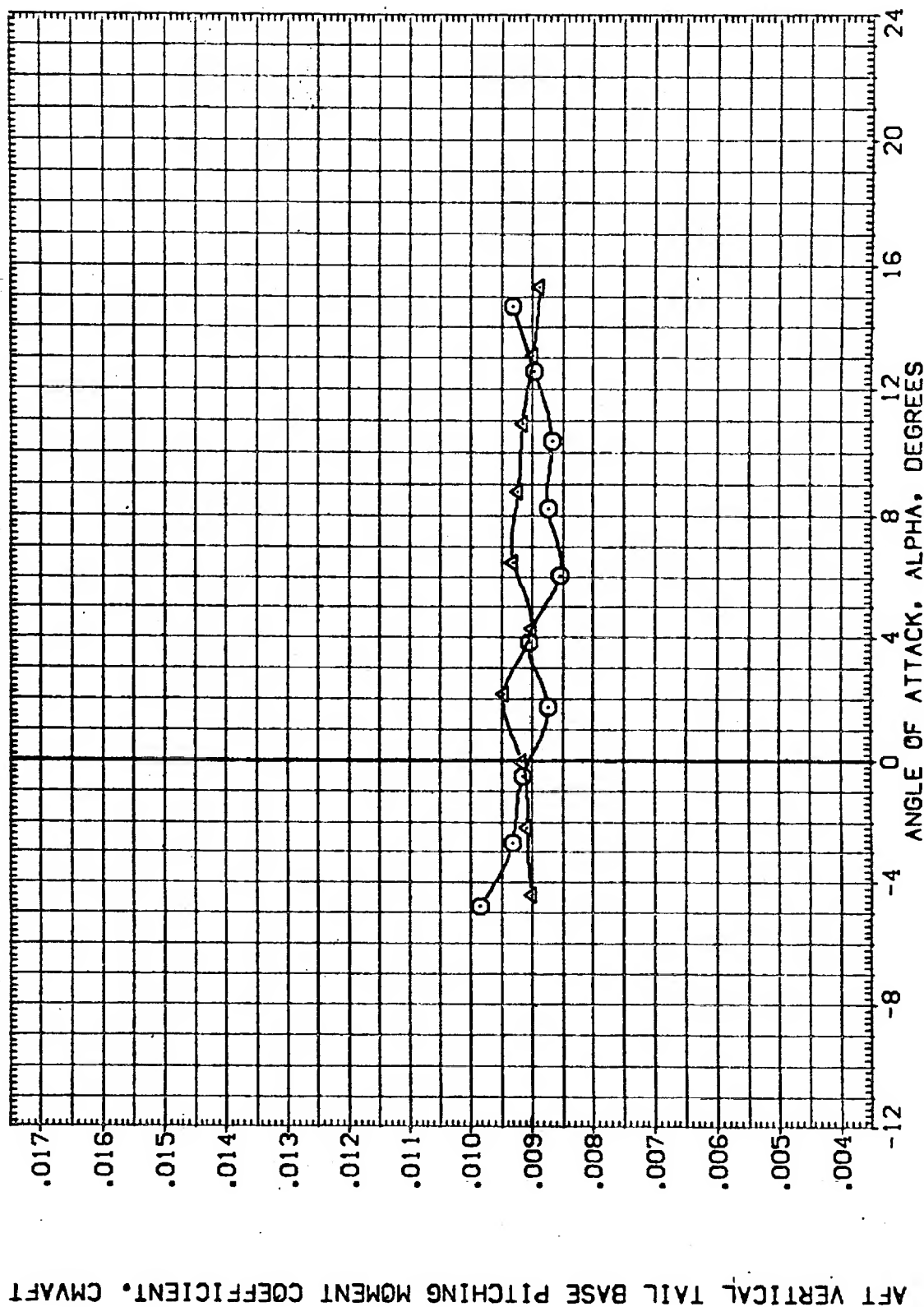


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 CA111A-(N24 RS V8)+STRUT+QJM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER003)	ARC 66-709 QAS9 CA111A-(N24 RS V8)+STRUT+QJM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 QAS9 CA111A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 CA111A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	ARC 66-709 QAS9 CA111A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

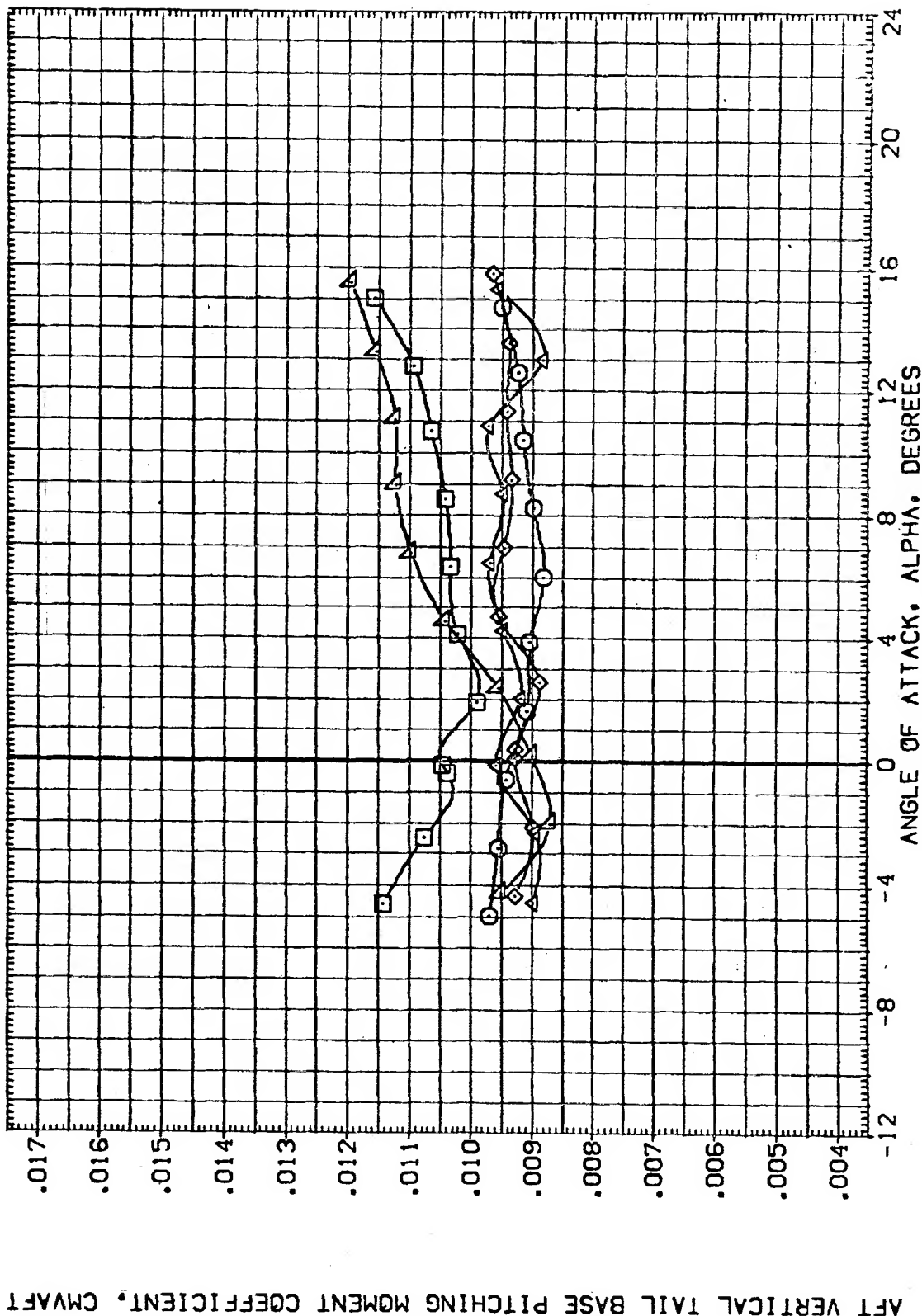


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(CD)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)-STRUT+QJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(R5 V8)-STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

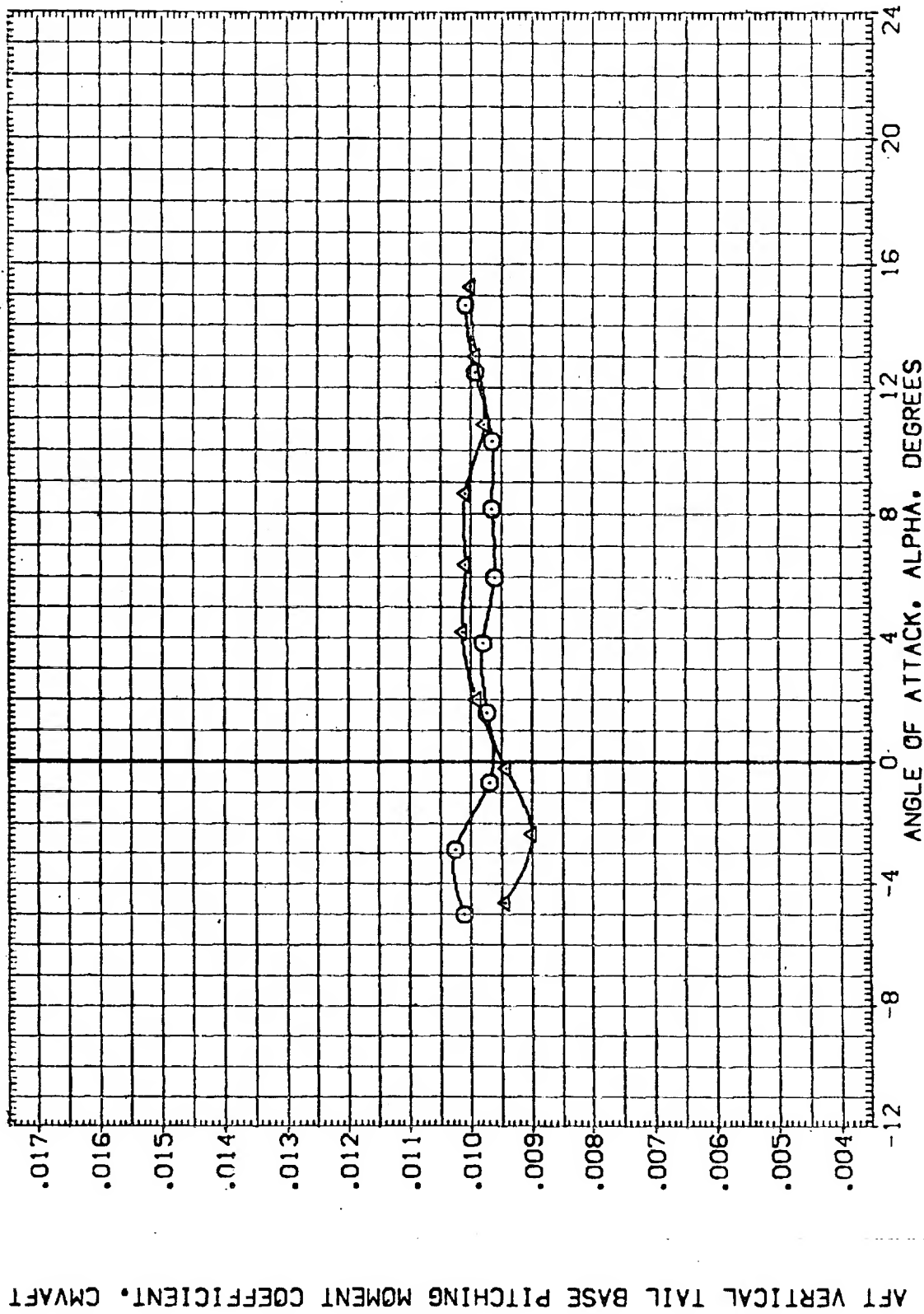


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG

(BER003) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG

(BER009) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT

(BER012) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

(BER013) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 15.000 -11.700

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

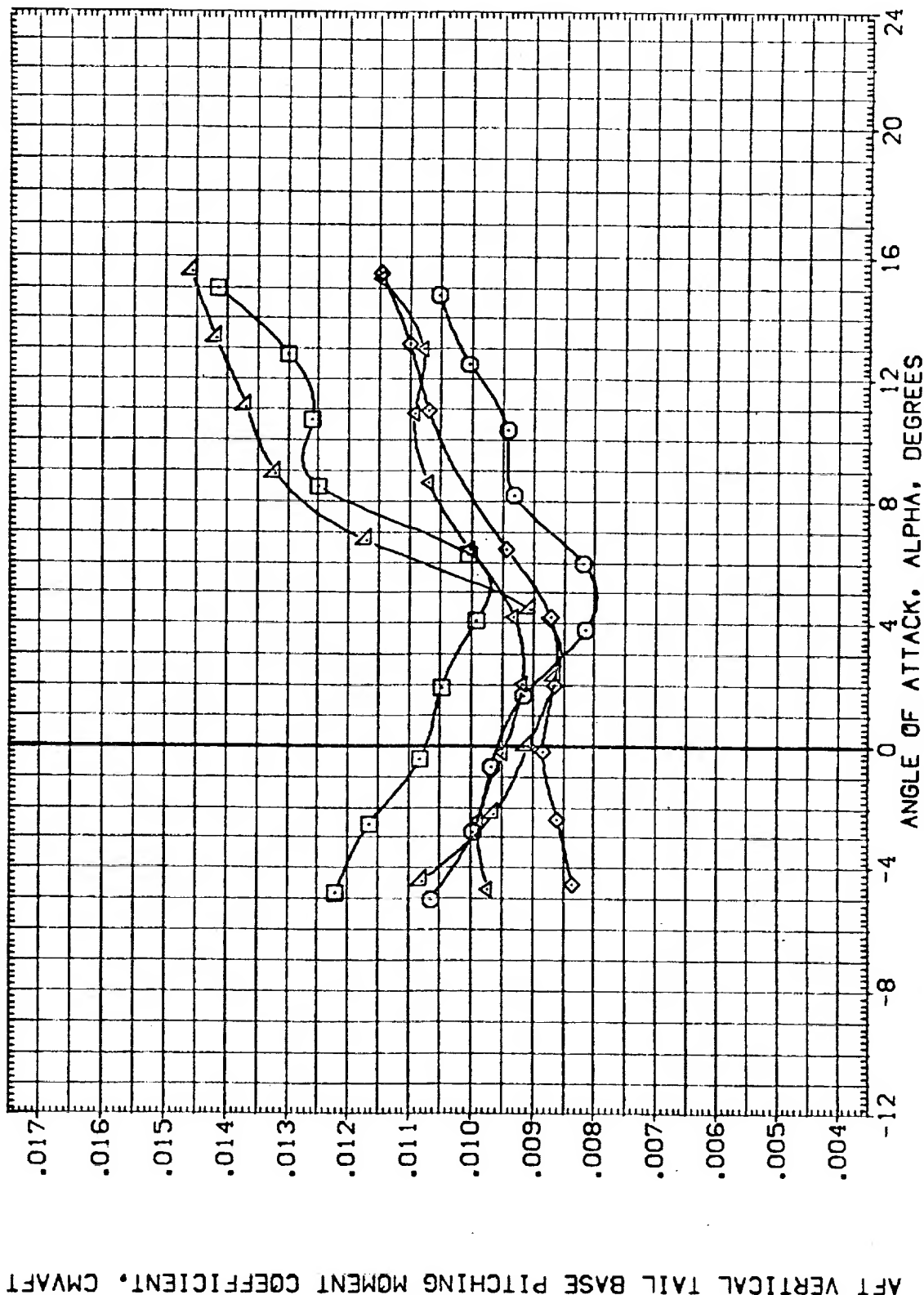
BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0459 0A11A-(N24 RS V81)+STRUT+OUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	DATA NOT AVAILABLE	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0459 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

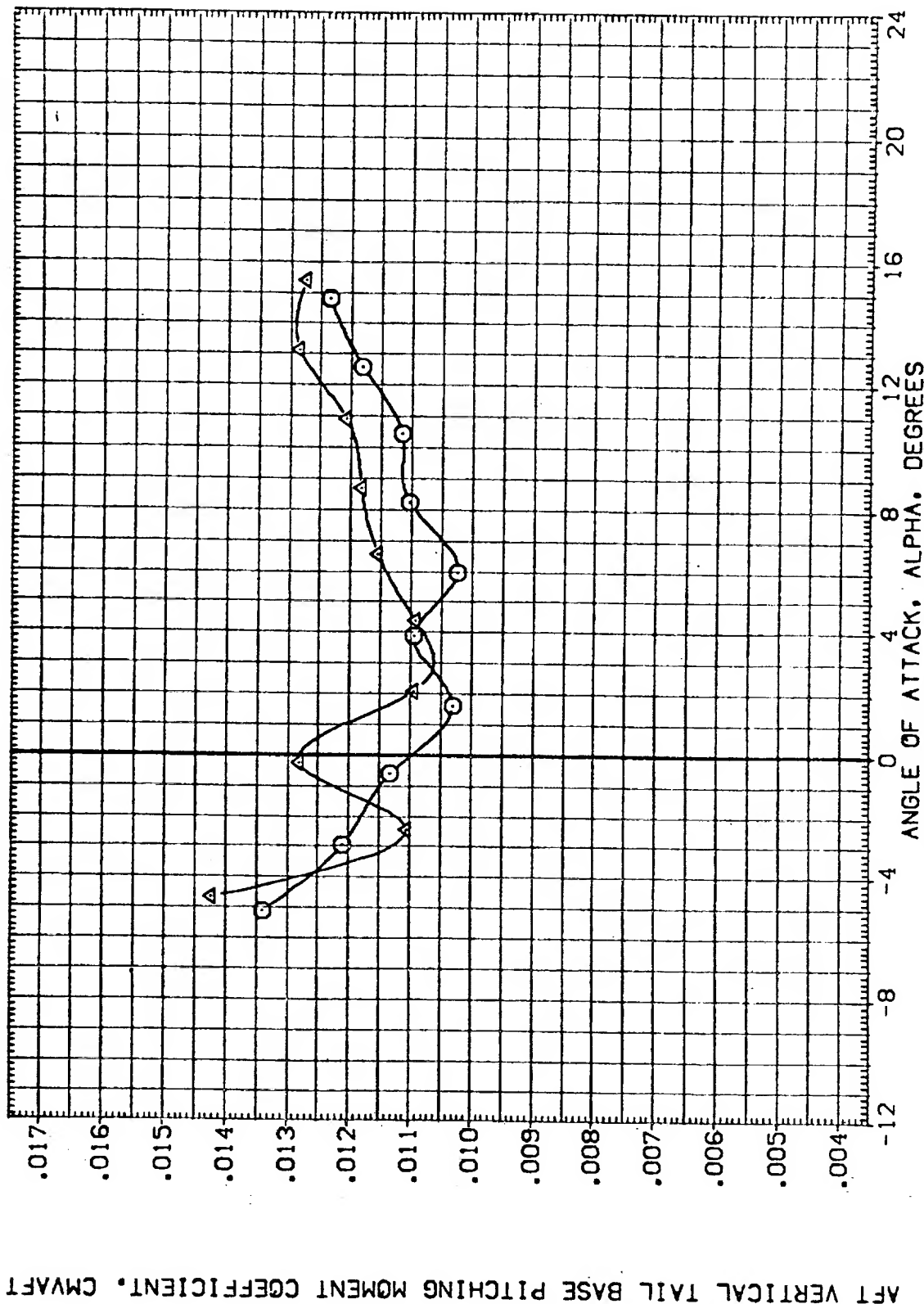


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	ZMRP .0000 IN.
					SCALE -.3750 IN.

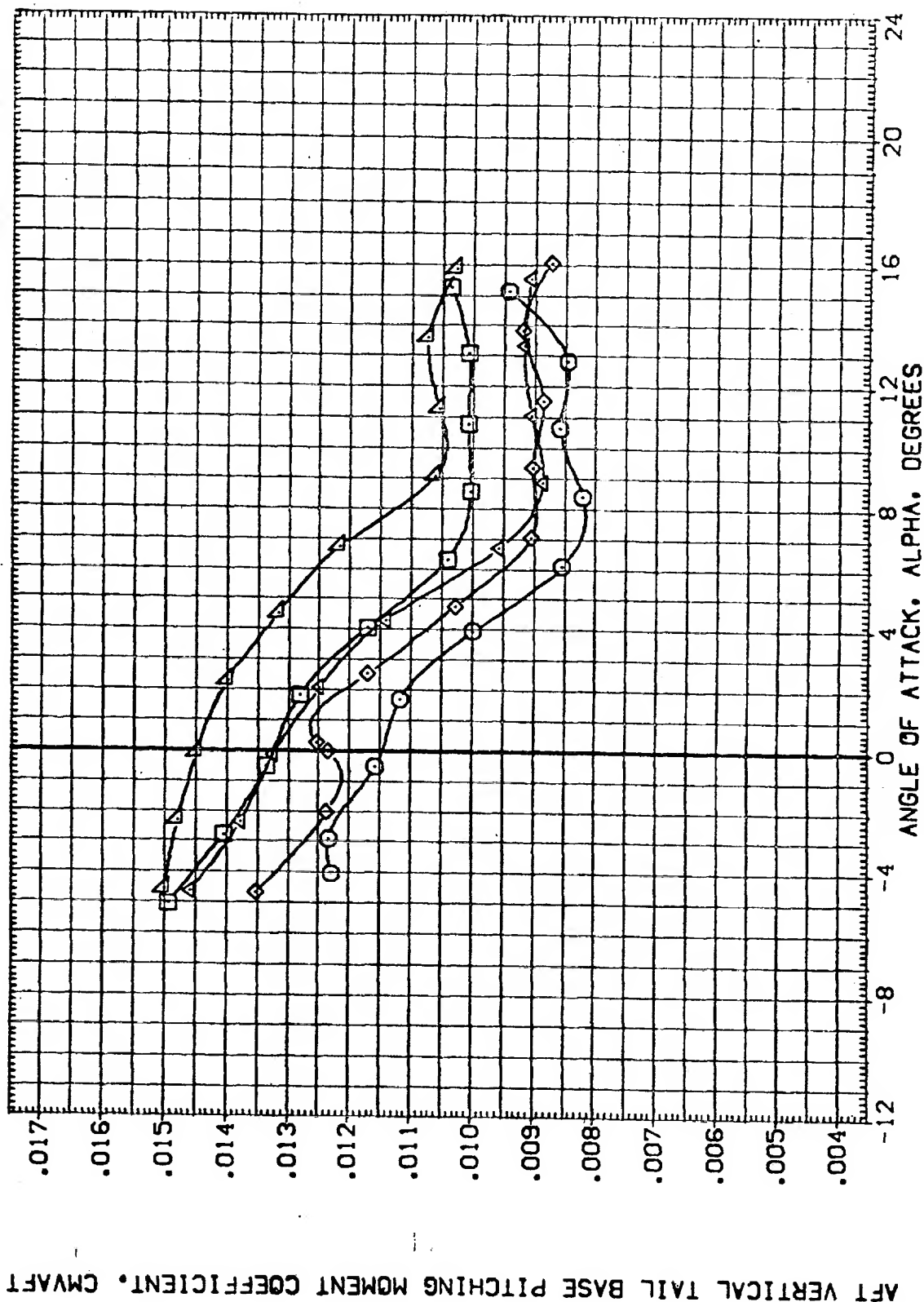


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

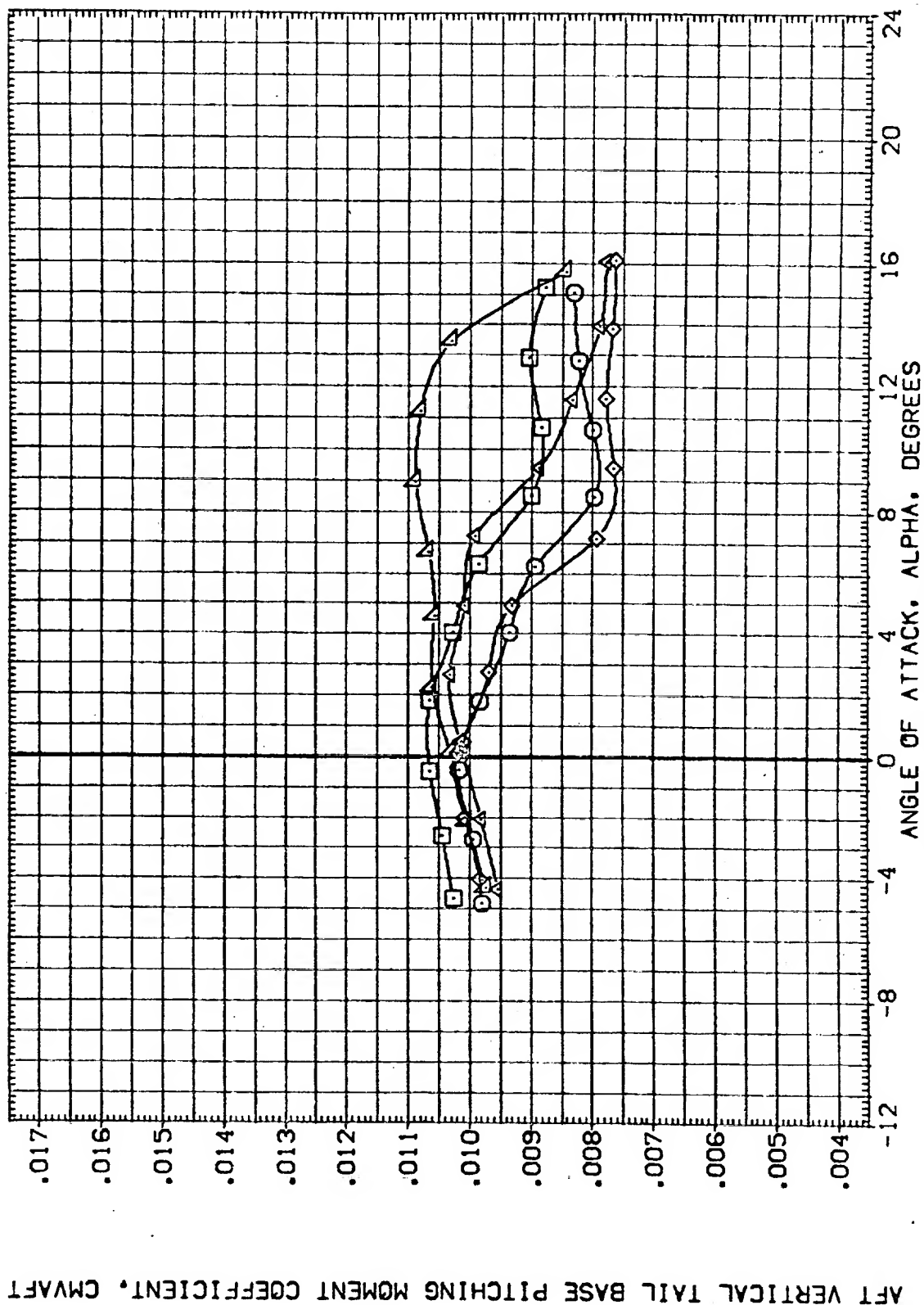


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+0JM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+0JM STNG	.000	15.000	-11.700	LREF .5935 FT.
(BER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER013)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	15.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

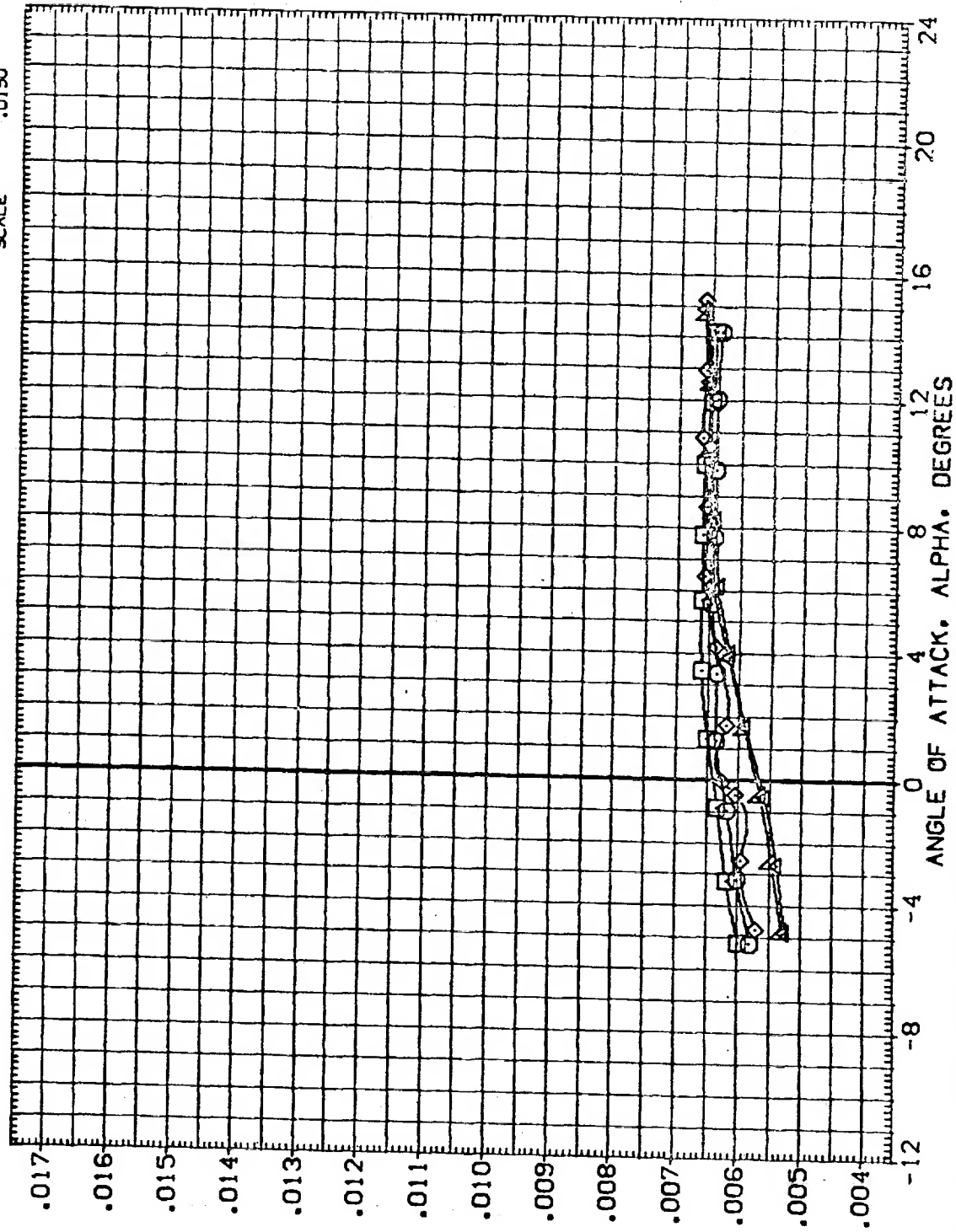
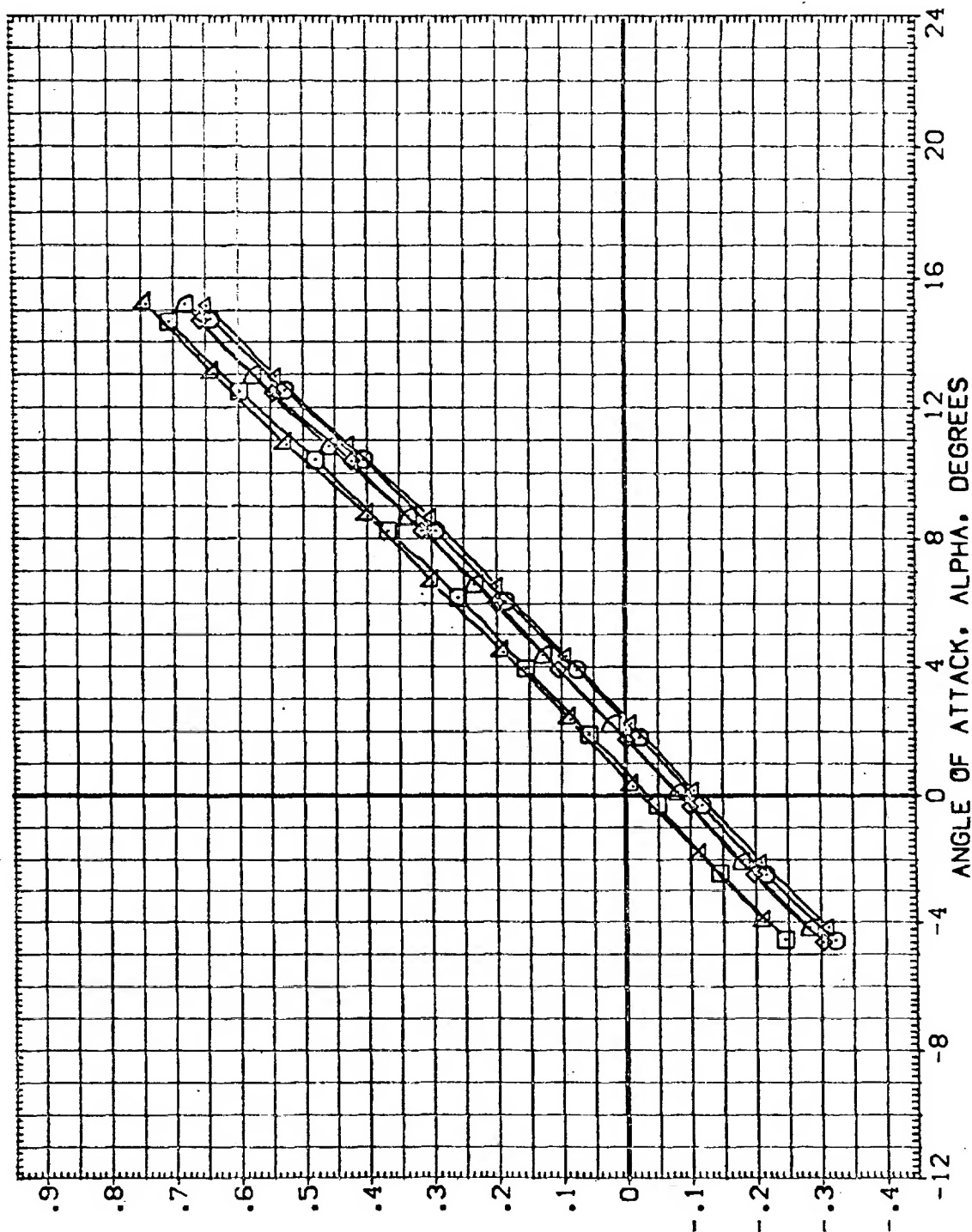


FIG. 4 ELEVON EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.



Balance Lift-Force Coefficient, CL

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	SREF	.6053	50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	LREF	.5935	FT.
(CER006)	DATA NOT AVAILABLE	BREF	1.1710	FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	XMRP	12.6235	IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	YMRP	.0000	IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	ZMRP	-.3750	IN.

BOFLAP ELEVON BETA SCALE

-11.700	.000	.000	.0150
16.300	.000	.000	
-11.700	.000	.000	
16.300	.000	.000	

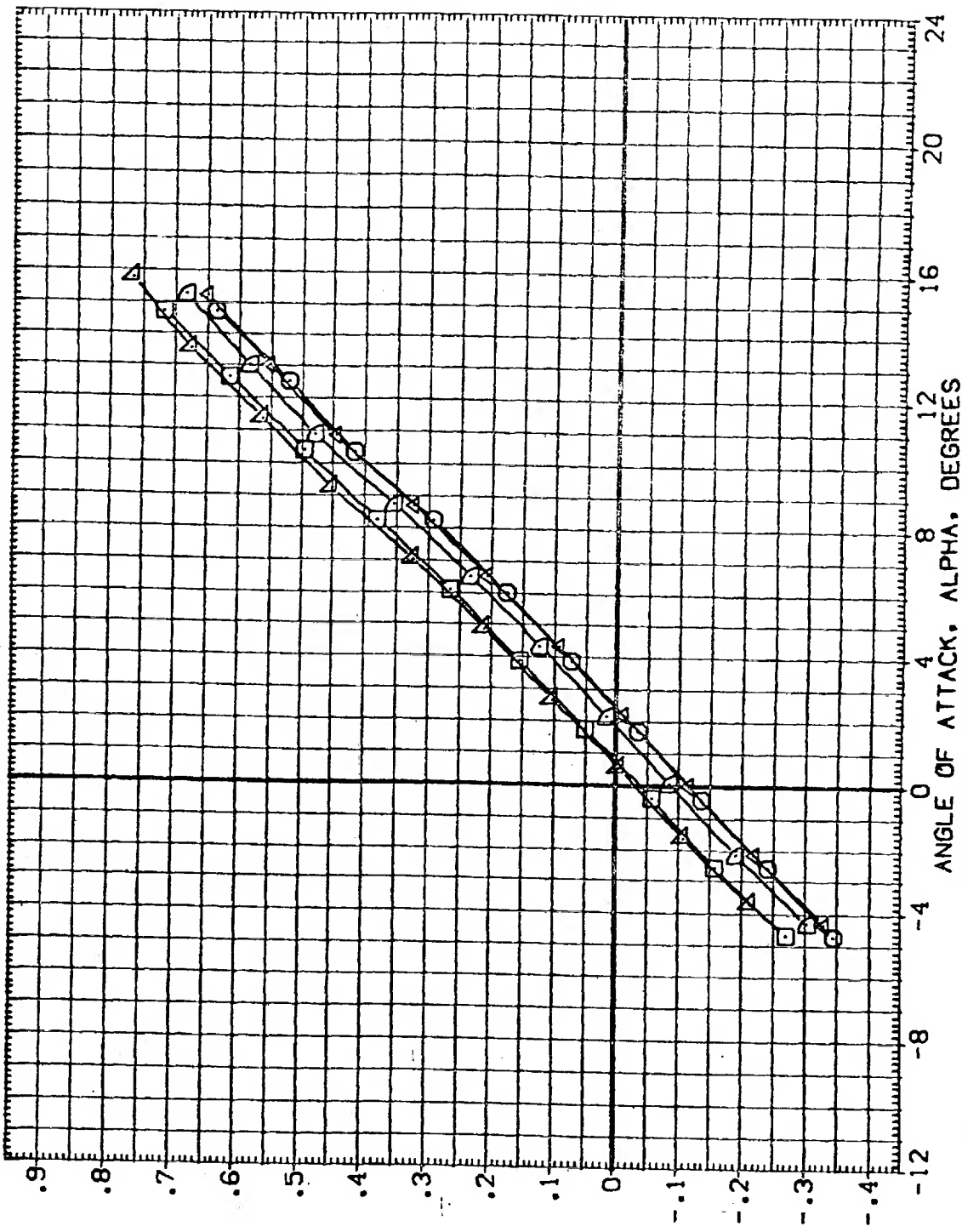


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 65-709 QAS9 0A11A-(N24 RS V8)-STRUT+OJM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 65-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

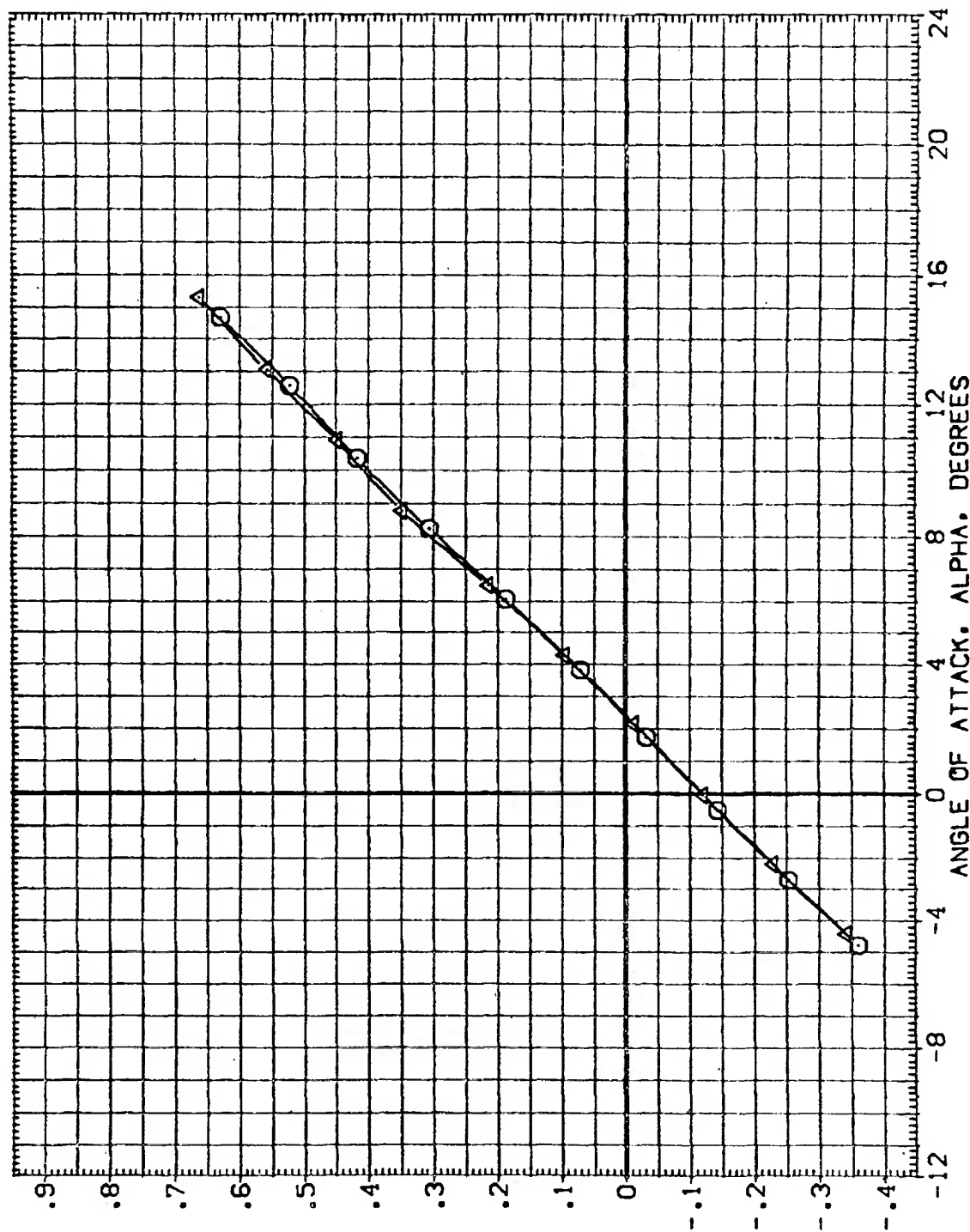


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

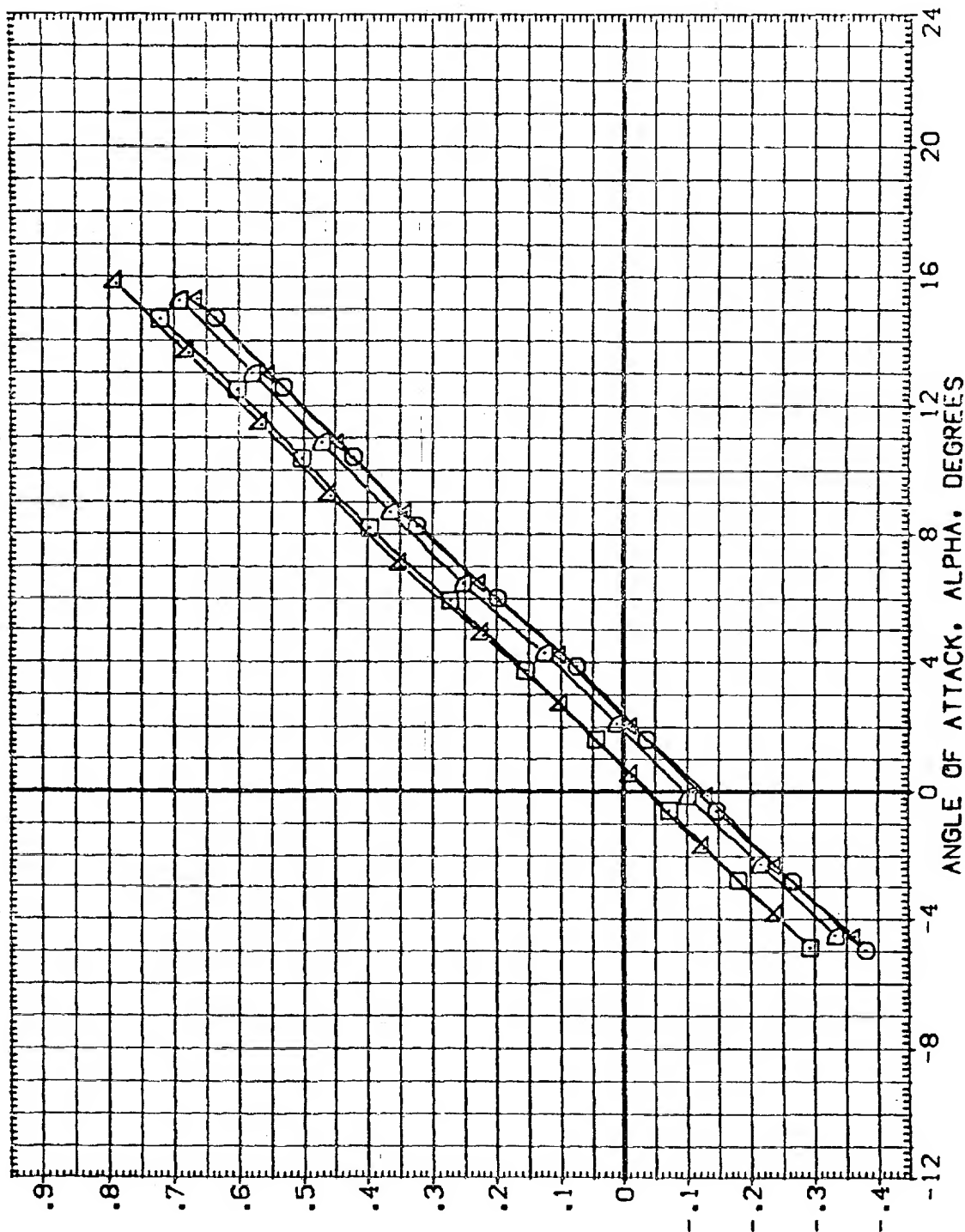


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A111A-(N24 RS V81)*STRUT+OLM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A111A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

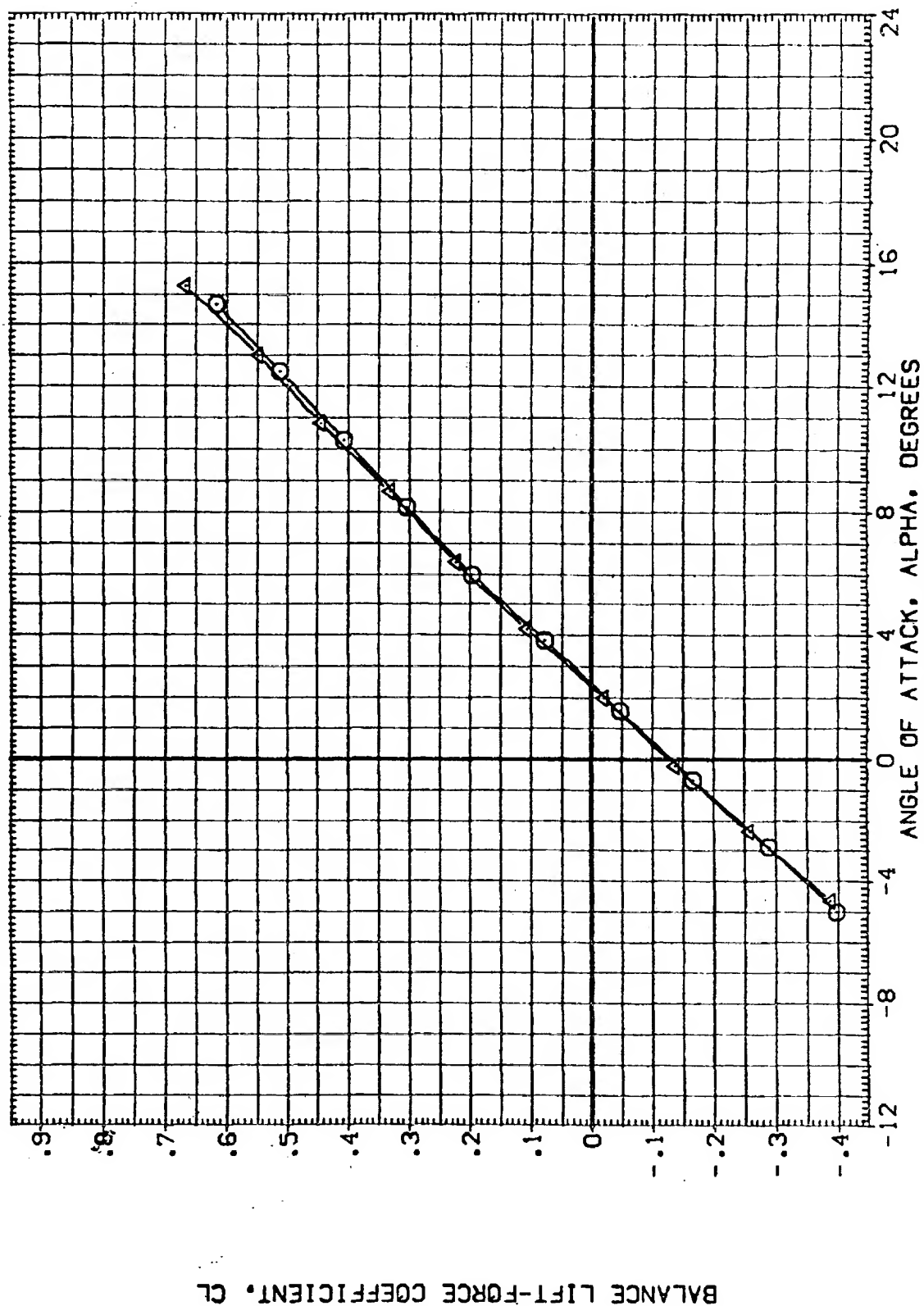


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

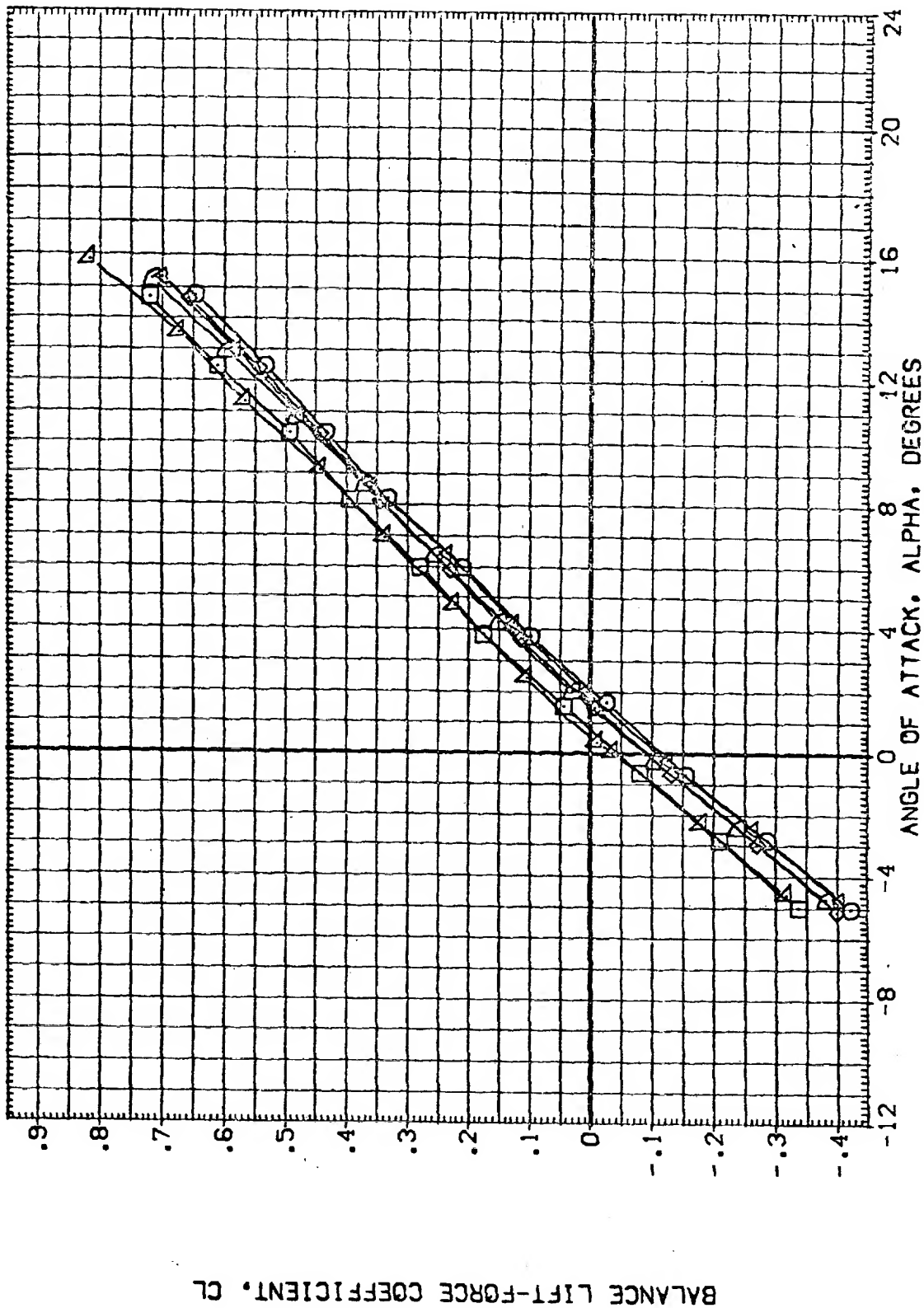


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 65-709 DASS DAI11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 65-709 DASS DAI11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
{CER015}	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

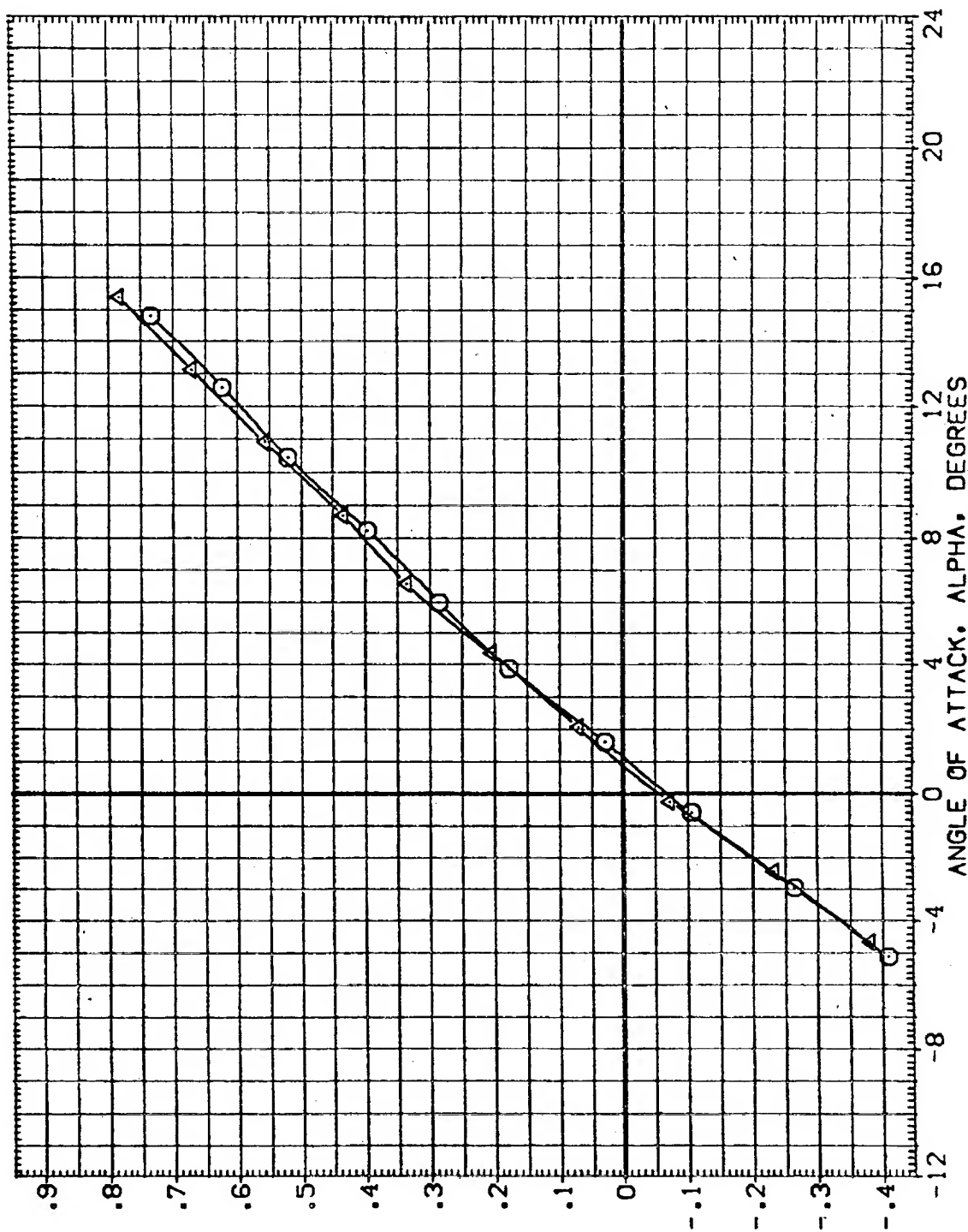


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

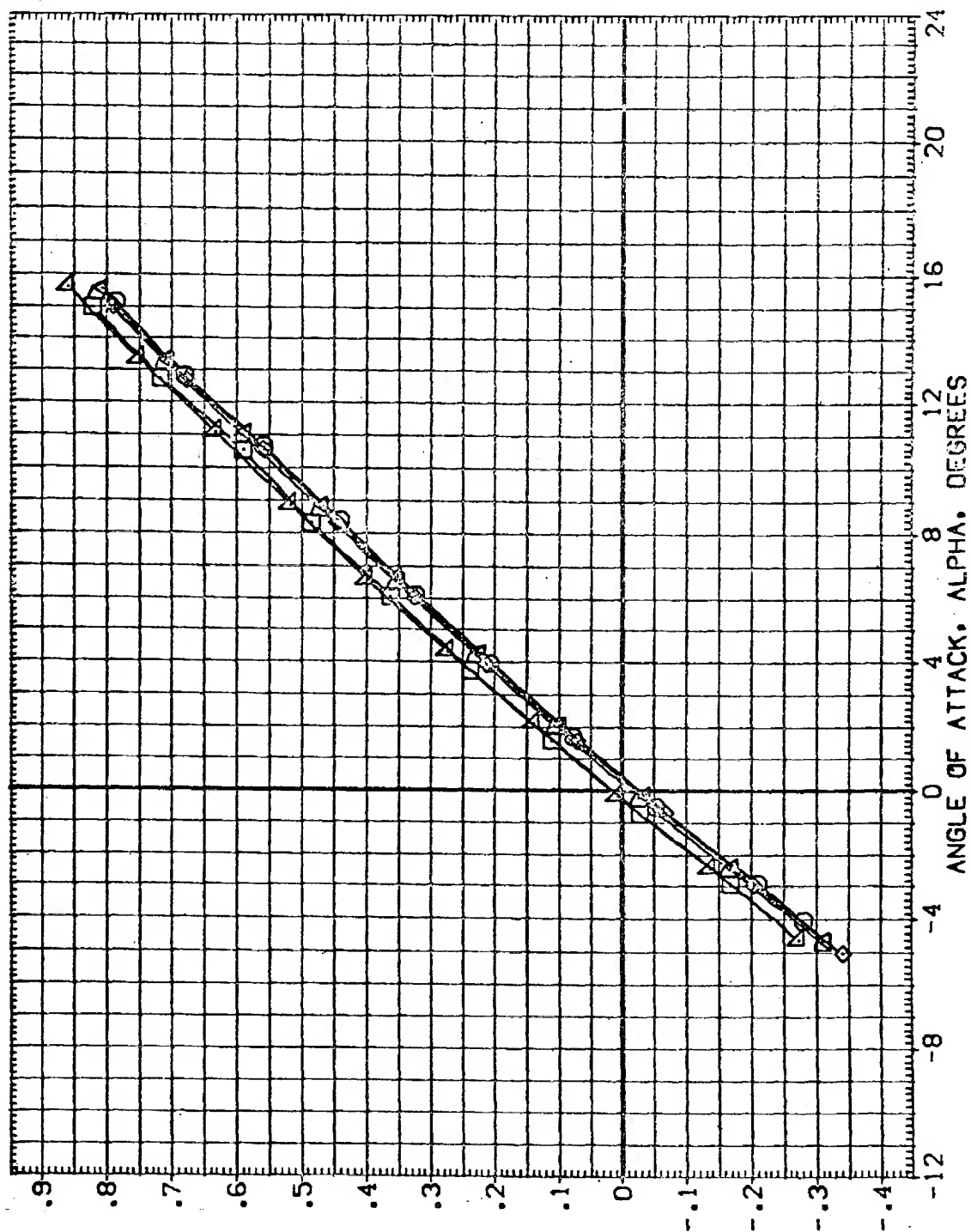


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BODY FLAP

BETA	.000
ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	DA59	DA11A-(N24	RS	VB1)+STRUT+DUM	SING
ARC 66-709	DA59	DA11A-(N24	RS	VB1)+STRUT+DUM	SING
DATA NOT AVAILABLE					
ARC 66-709	DA59	DA11A-(RS	VB1)+STRUT		
ARC 66-709	DA59	DA11A-(RS	VB1)+STRUT		
ARC 66-709	DA59	DA11A-(RS	VB1)+STRUT		

DATA SET SYMBOL

{CER001}	□
{CER005}	○
{CER006}	×
{CER012}	△
{CER014}	◇
{CER015}	▽

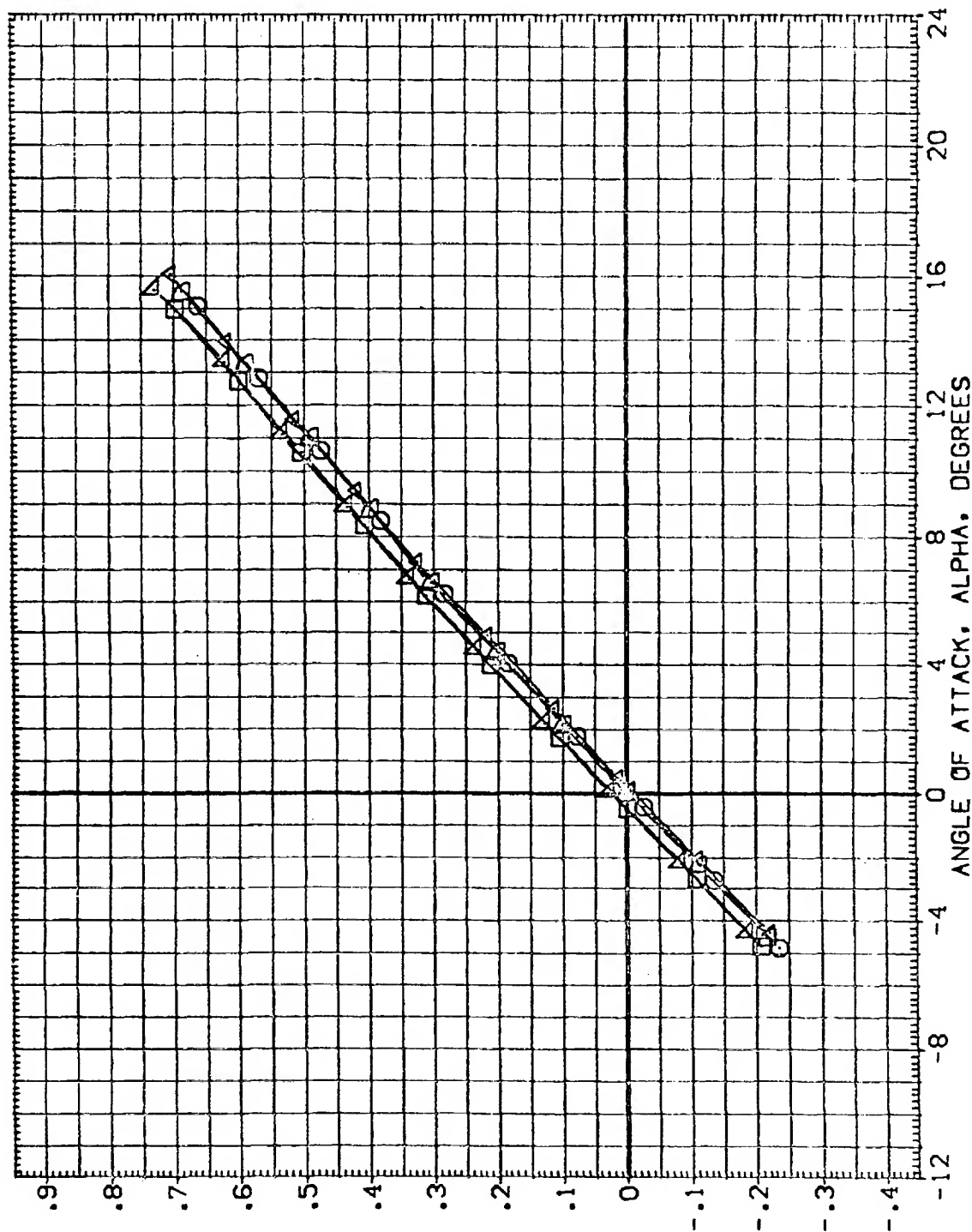


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

CLIMACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

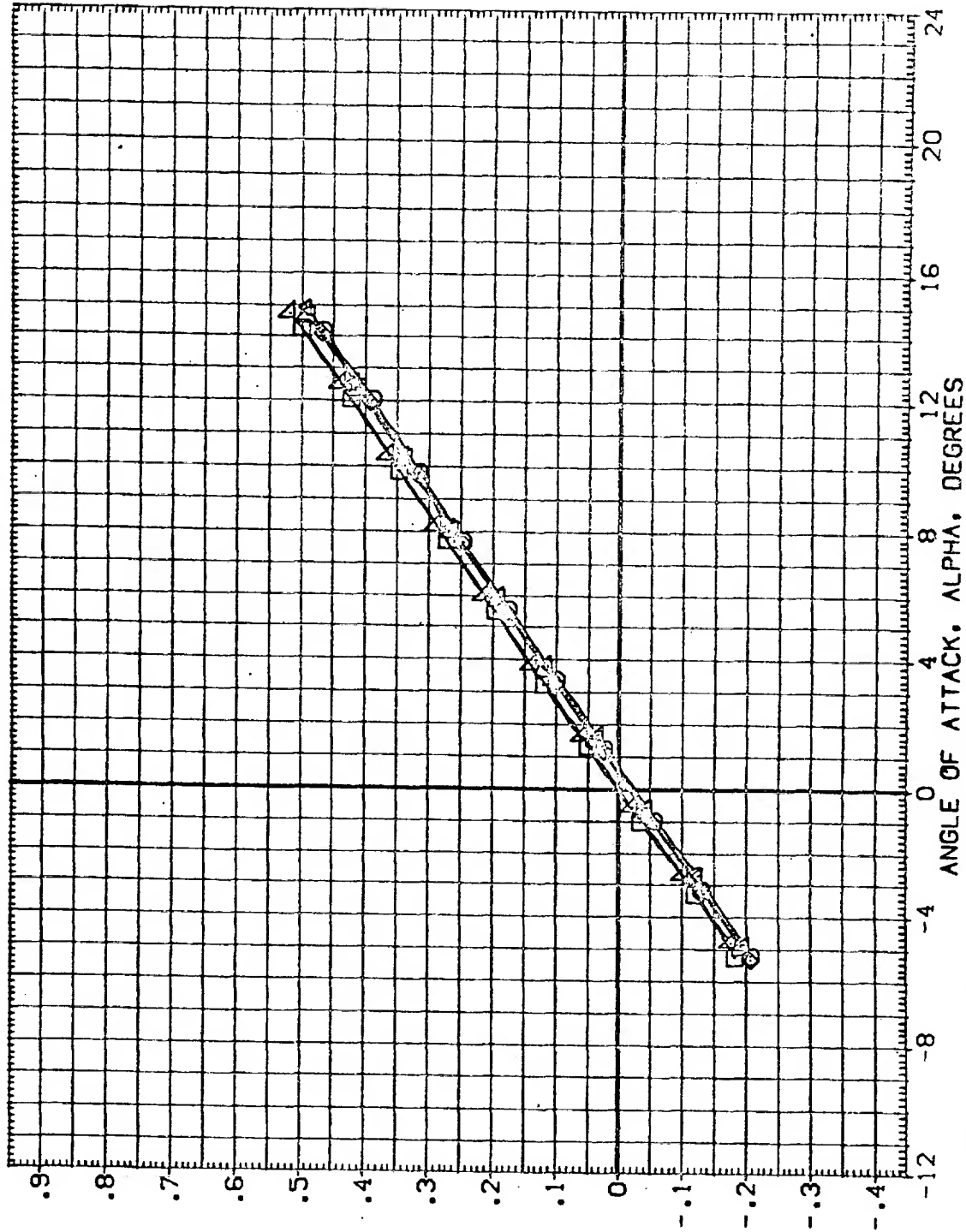


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(JMMACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

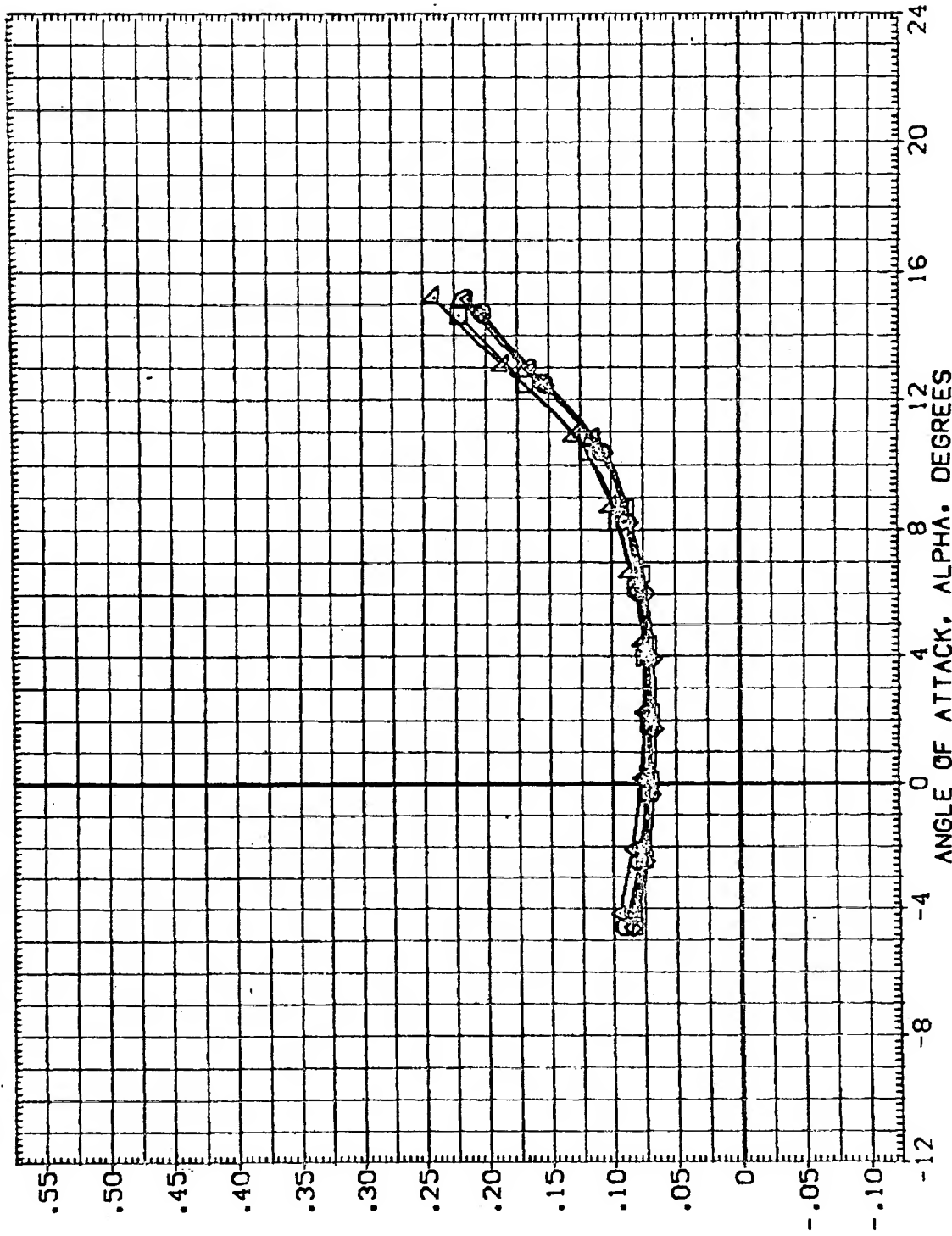


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

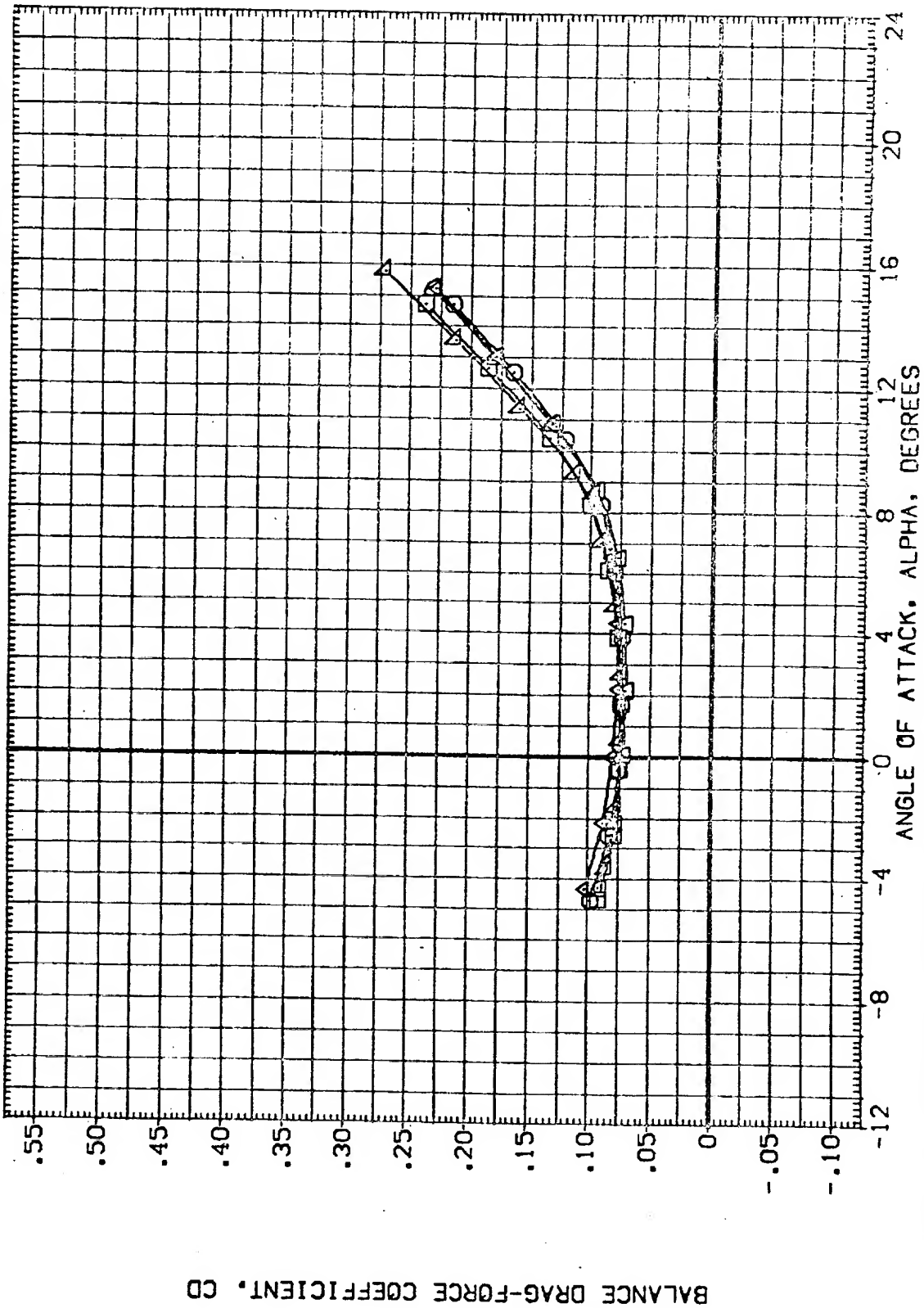


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 0A11A-(N24 R5 V81)+STRUT+DJ4 STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 OAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

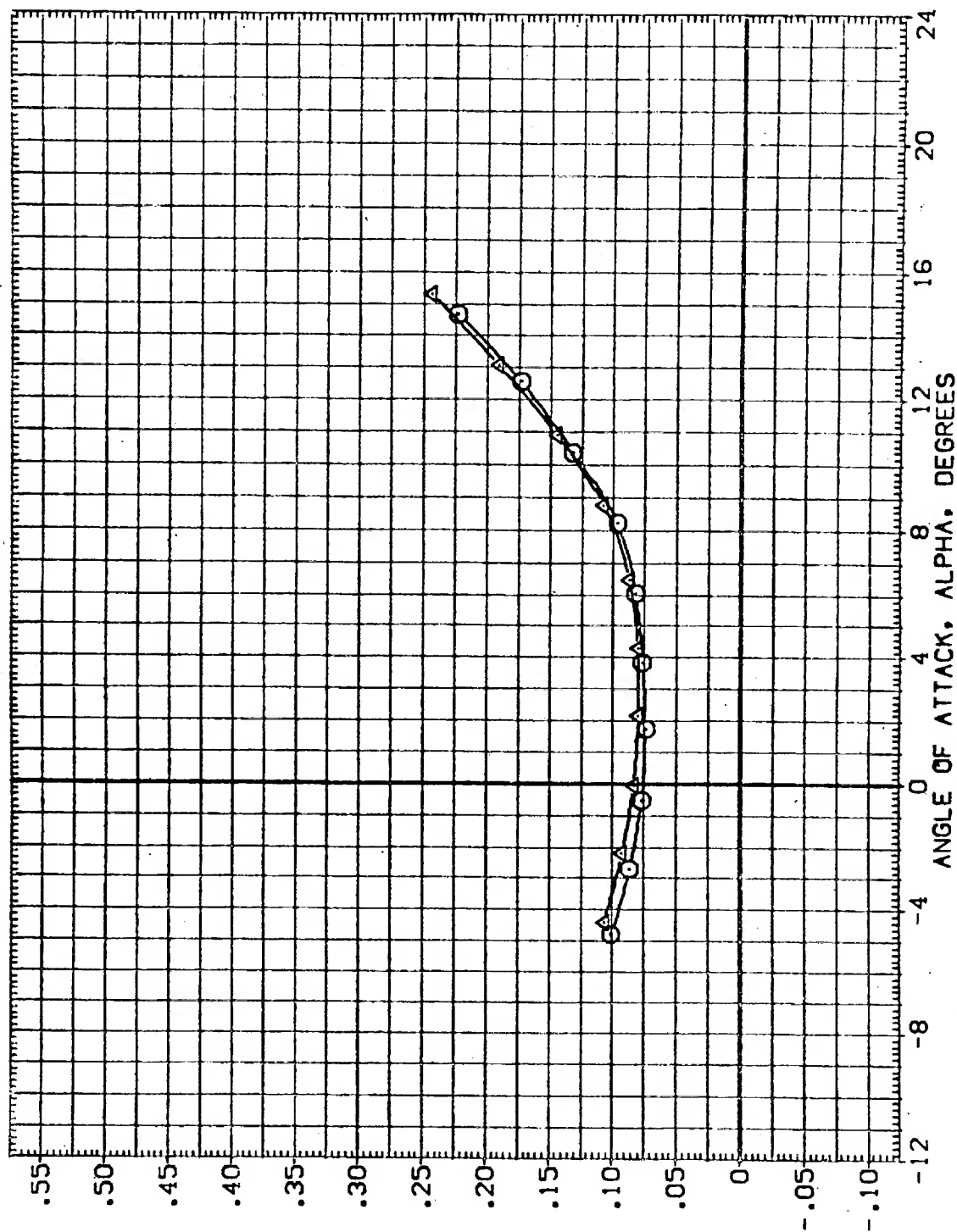


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
{CER008}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

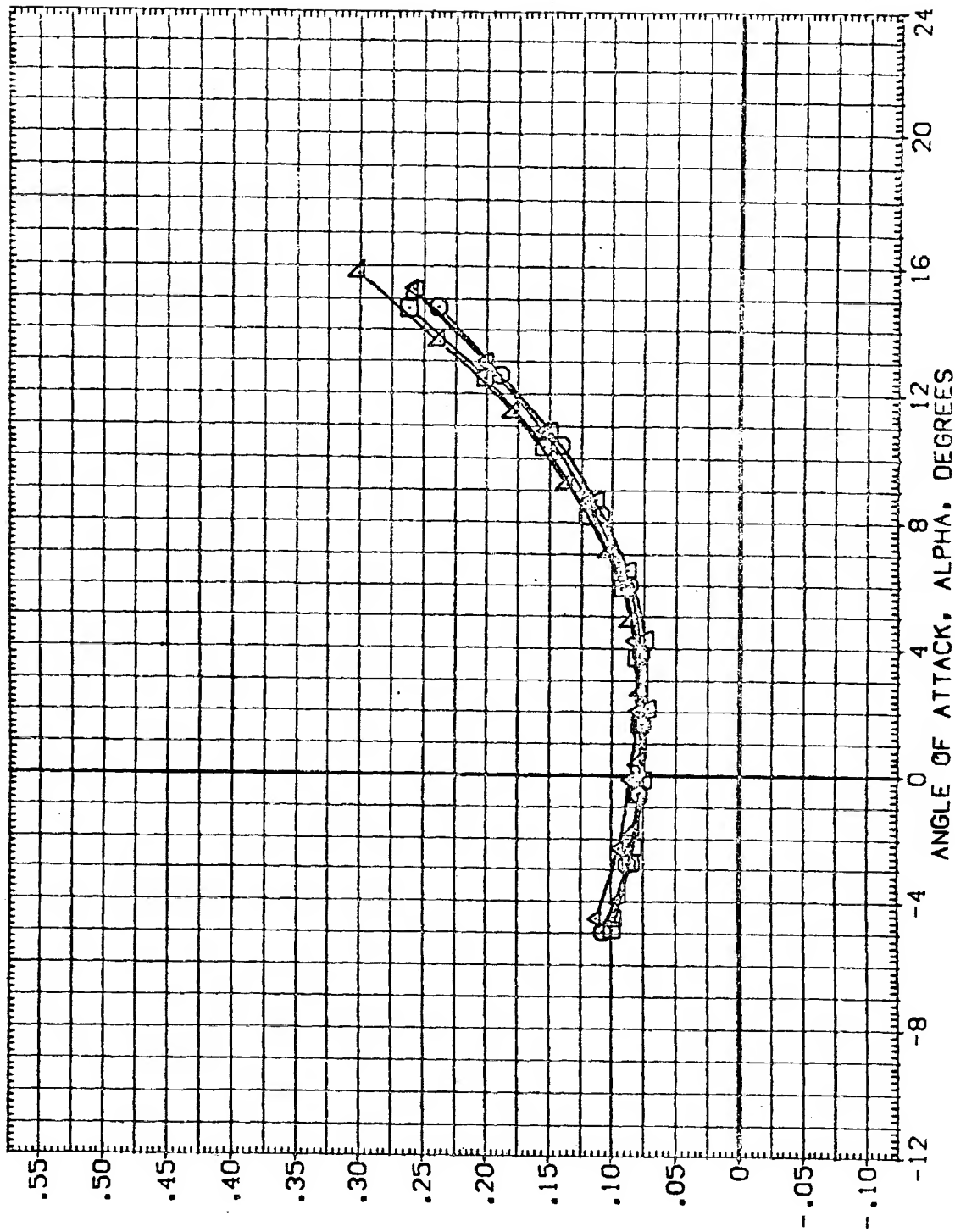


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(0)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 0A59 0A111A-(N24 RS V8)+STRUT+DUM STING

(CER005) DATA NOT AVAILABLE

(CER006) DATA NOT AVAILABLE

(CER012) ARC 66-709 0A59 0A111A-(RS V8)+STRUT

(CER014) DATA NOT AVAILABLE

(CER015) DATA NOT AVAILABLE

REFERENCE INFORMATION

SREF 50.53 FT.

LREF 5935 FT.

BREF 1.1710 IN.

YMRP 12.6255 IN.

ZMRP -3750 IN.

SCALE .0150

BETA .000

ELEVON .000

BDF LAP -11.700

BDF LAP 16.300

BDF LAP .000

BDF LAP -11.700

BDF LAP 16.300

BDF LAP .000

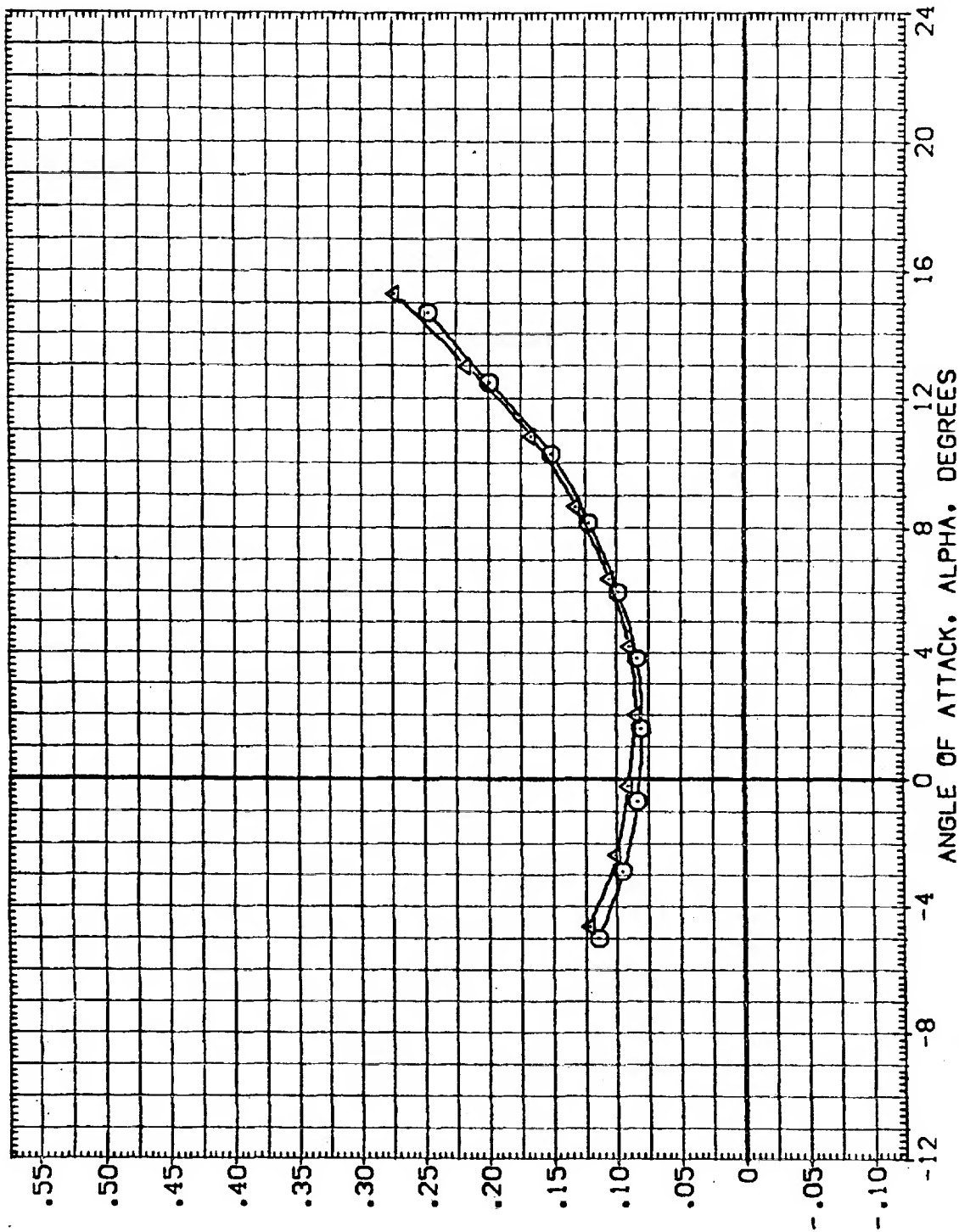


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 50. FT.
{CER005}	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
{CER006}	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP -.3750 IN.
{CER015}	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	ZMRP .0150 IN.
					SCALE

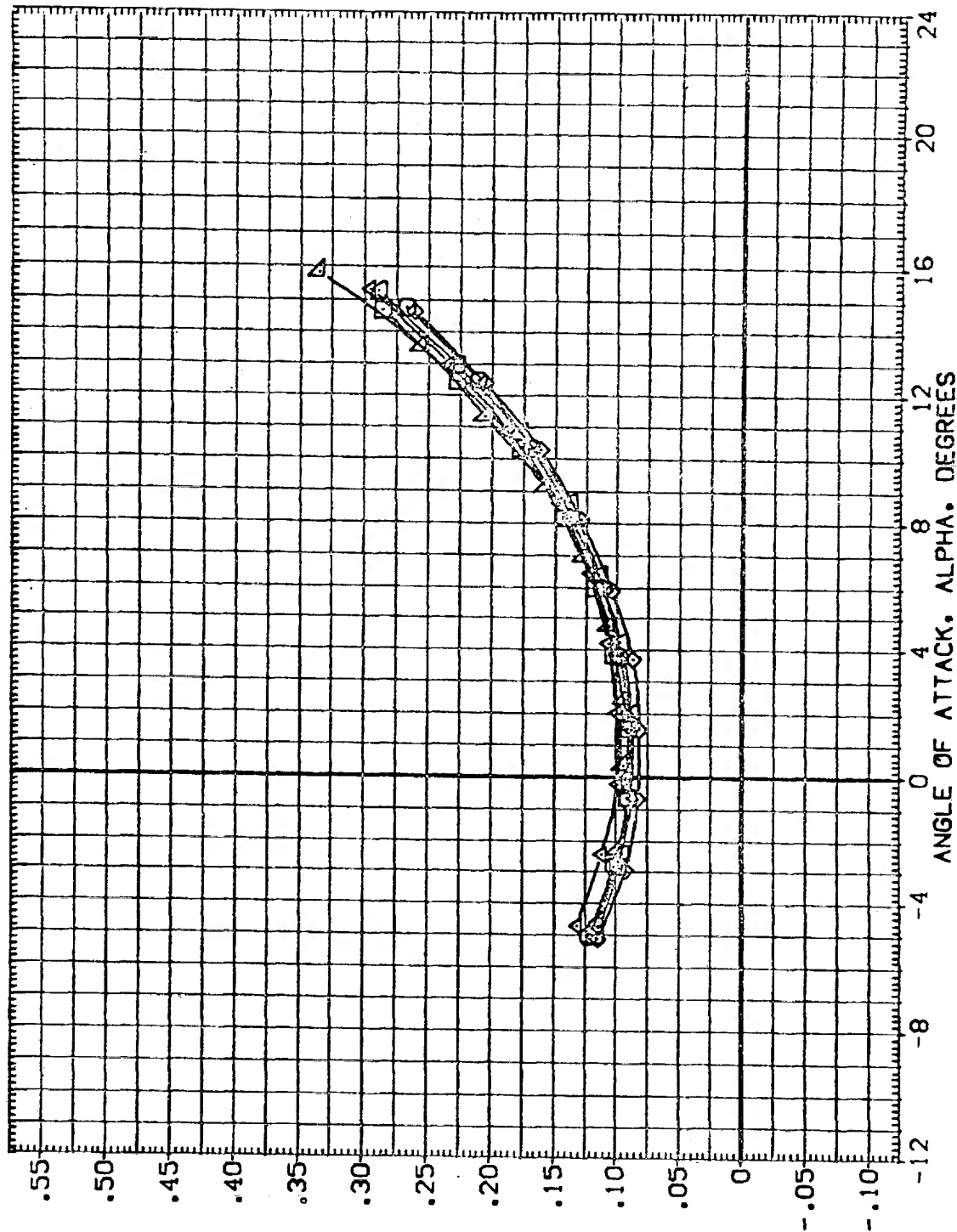
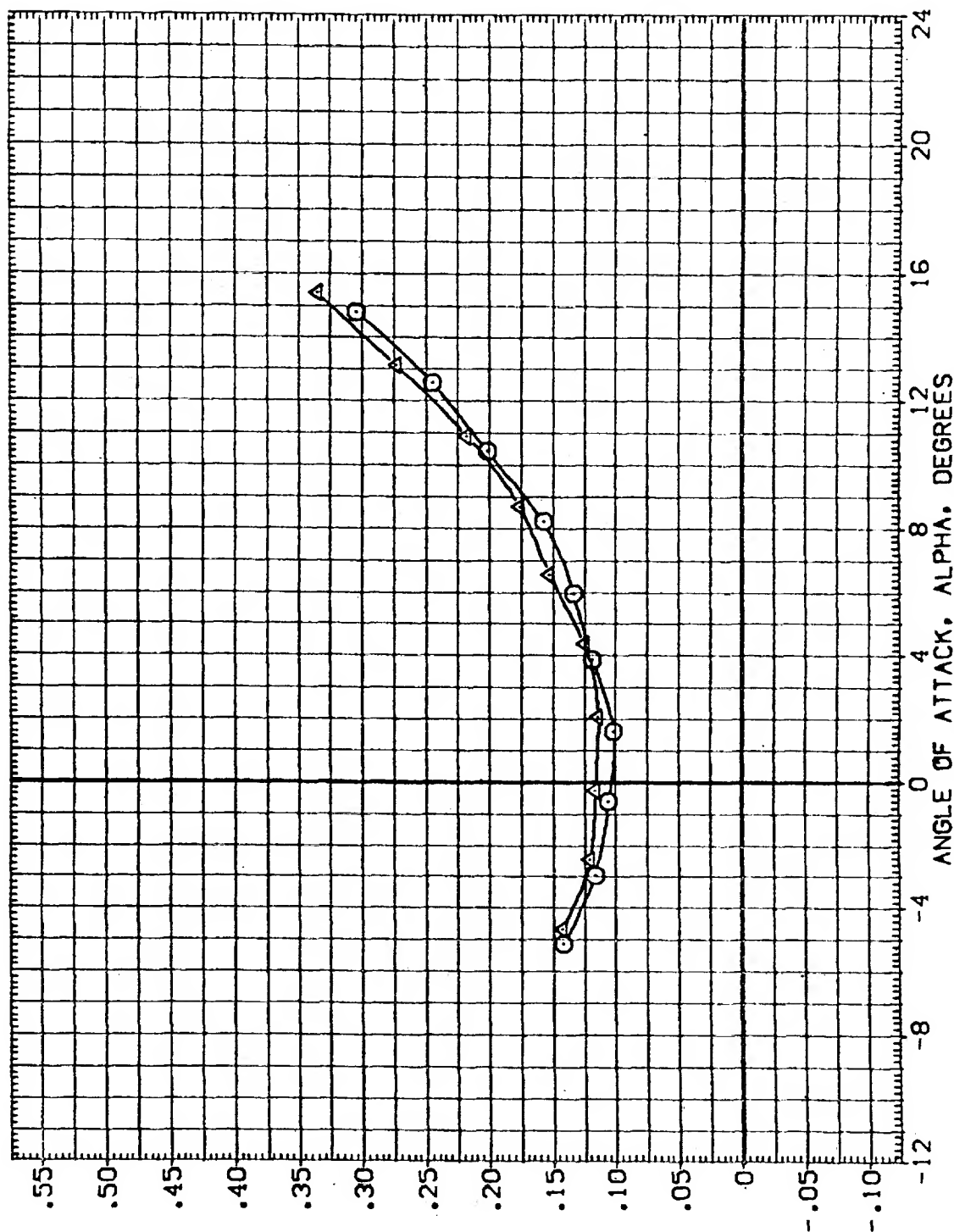


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CF)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE DRAG-FORCE COEFFICIENT, CD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

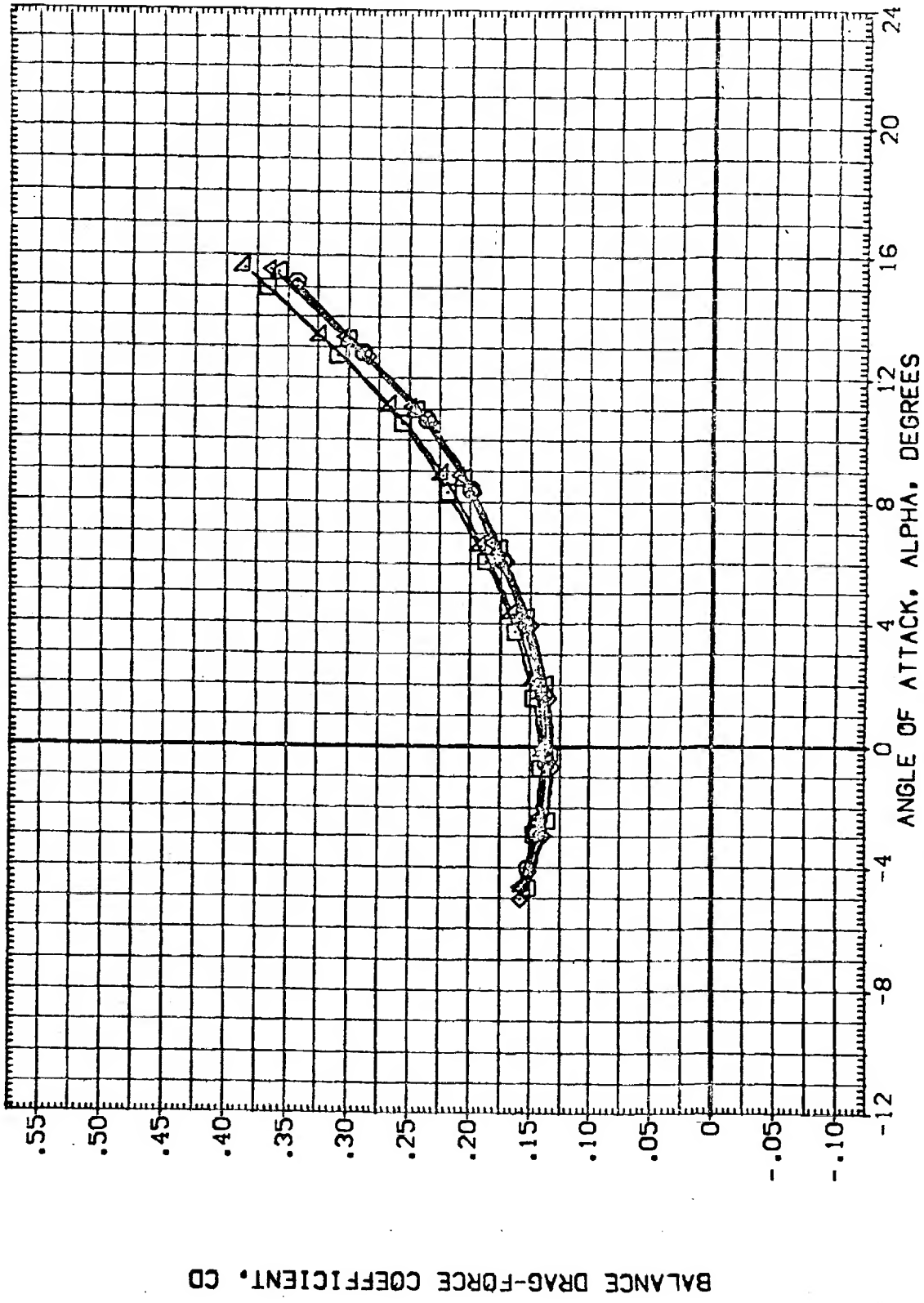


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 D459 DAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 D459 DAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 D459 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 D459 DAI1A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 D459 DAI1A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

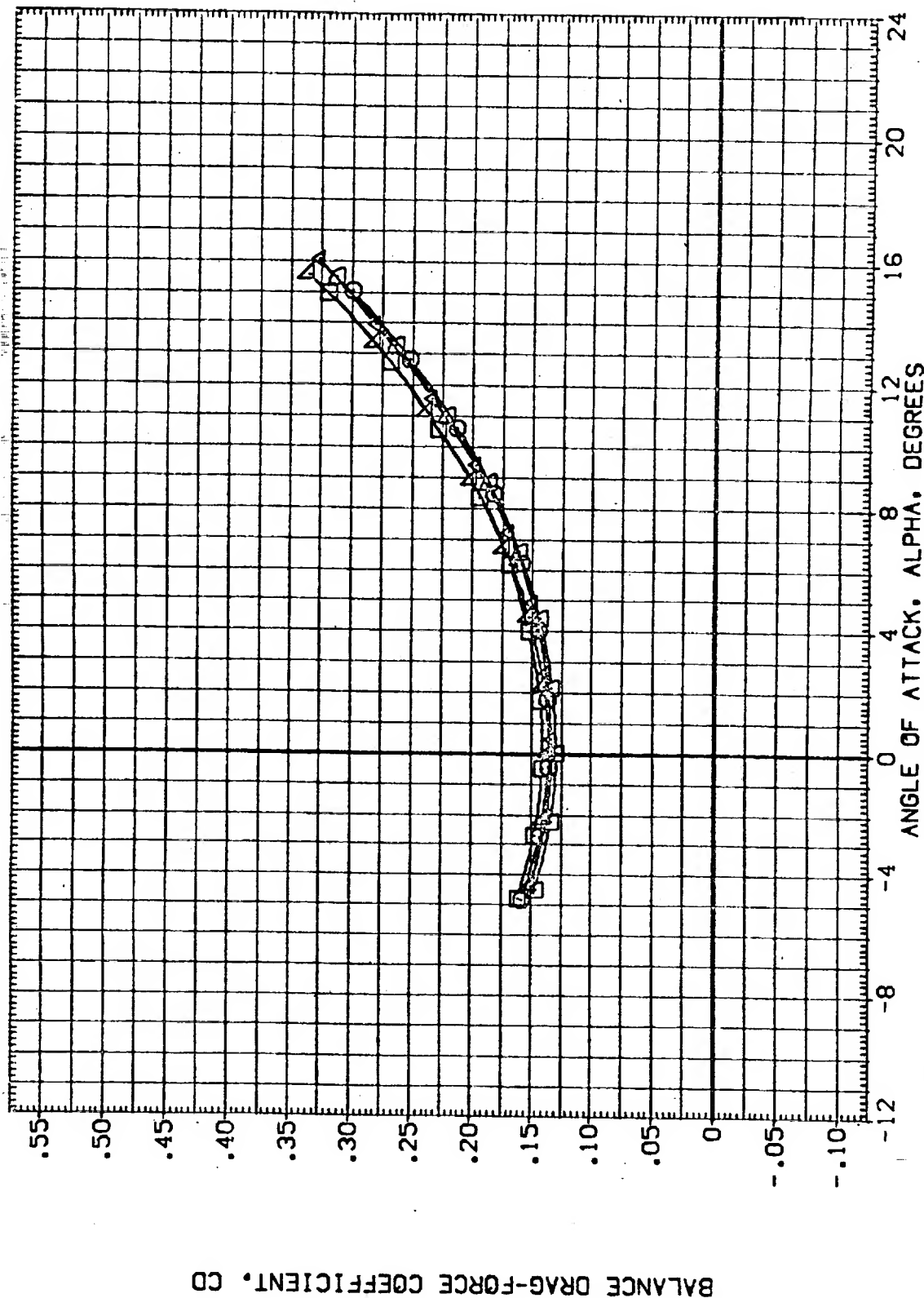


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)	ARC 66-709	QA59	QA11A-(N24	RS	V8)	+STRUT+DUM	STNG
(CER005)	ARC 66-709	QA59	QA11A-(N24	RS	V8)	+STRUT+DUM	STNG
(CER006)	ARC 66-709	QA59	QA11A-(N24	RS	V8)	+STRUT+DUM	STNG
(CER012)	ARC 66-709	QA59	QA11A-(R5	V8)	+STRUT		
(CER014)	ARC 66-709	QA59	QA11A-(R5	V8)	+STRUT		
(CER015)	ARC 66-709	QA59	QA11A-(R5	V8)	+STRUT		

BETA

ELEVON	BOFLAP
.000	-11.700
.000	16.300
.000	.000
.000	-11.700
.000	16.300
.000	.000

REFERENCE INFORMATION

SREF	50. FT.
LREF	.5535
BREF	1.1710
XMRP	12.6255
YMRP	.0000
ZMRP	-.3750
SCALE	.0150

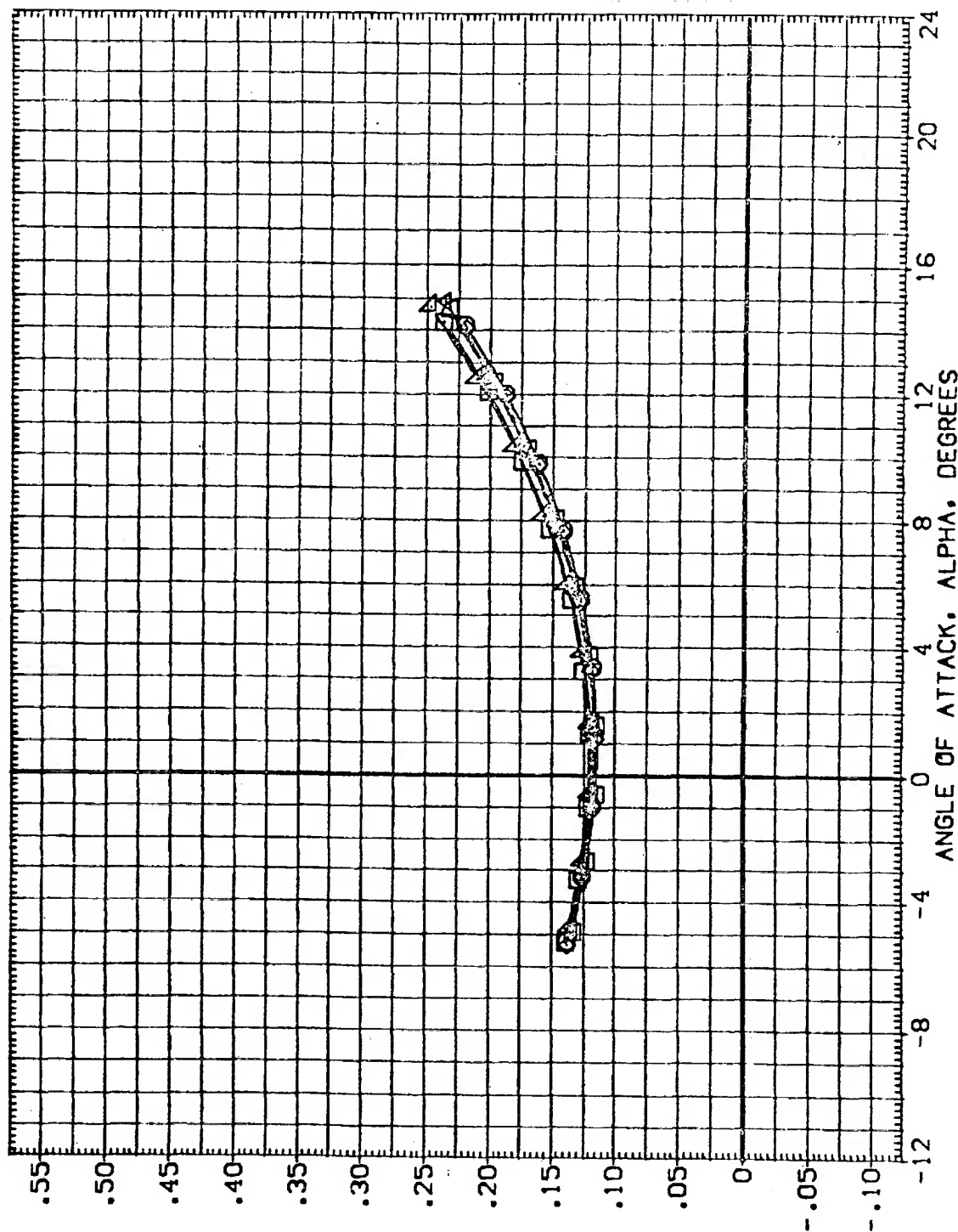


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80° LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP -.3750 IN.
(CER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP .0150

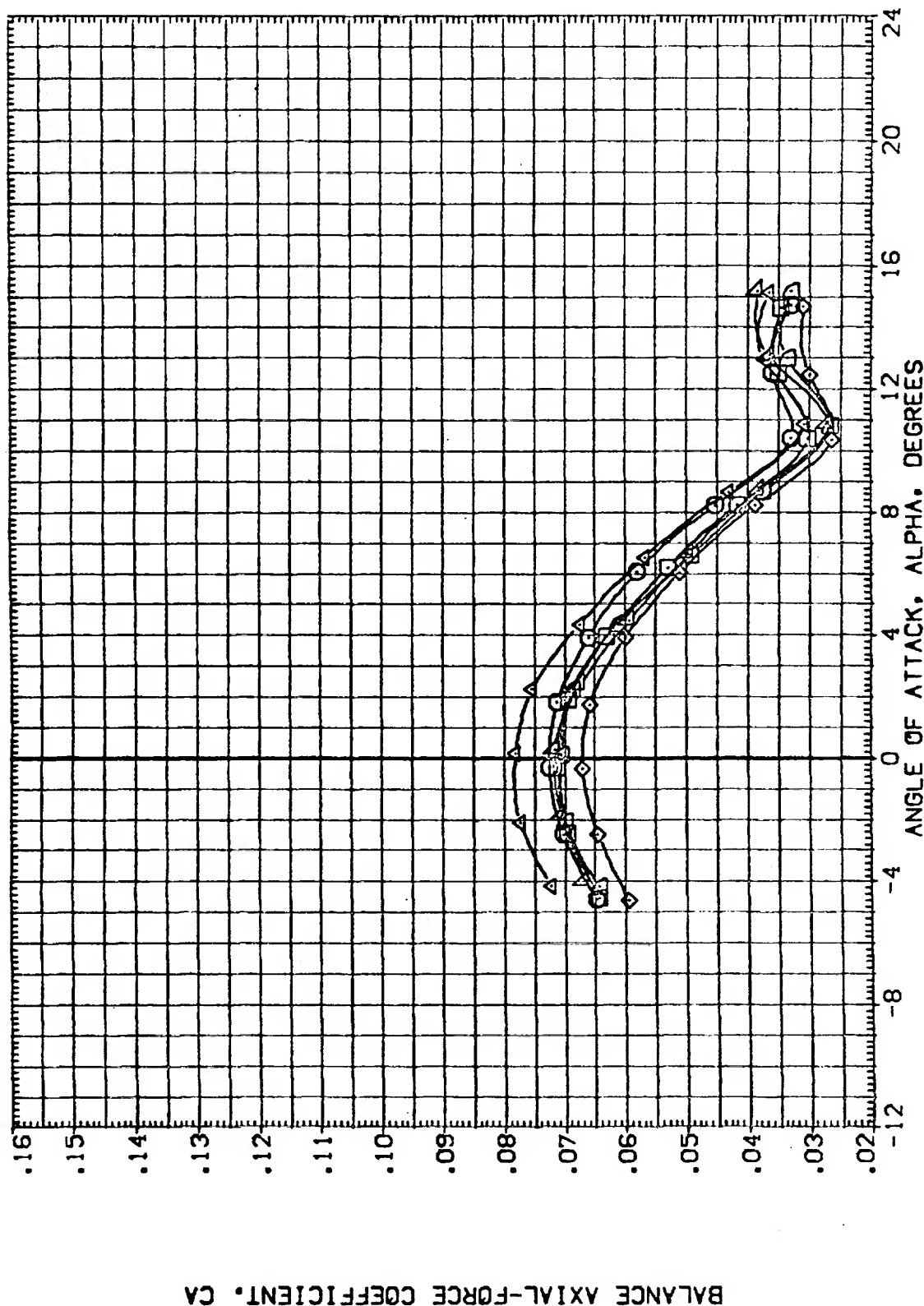


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

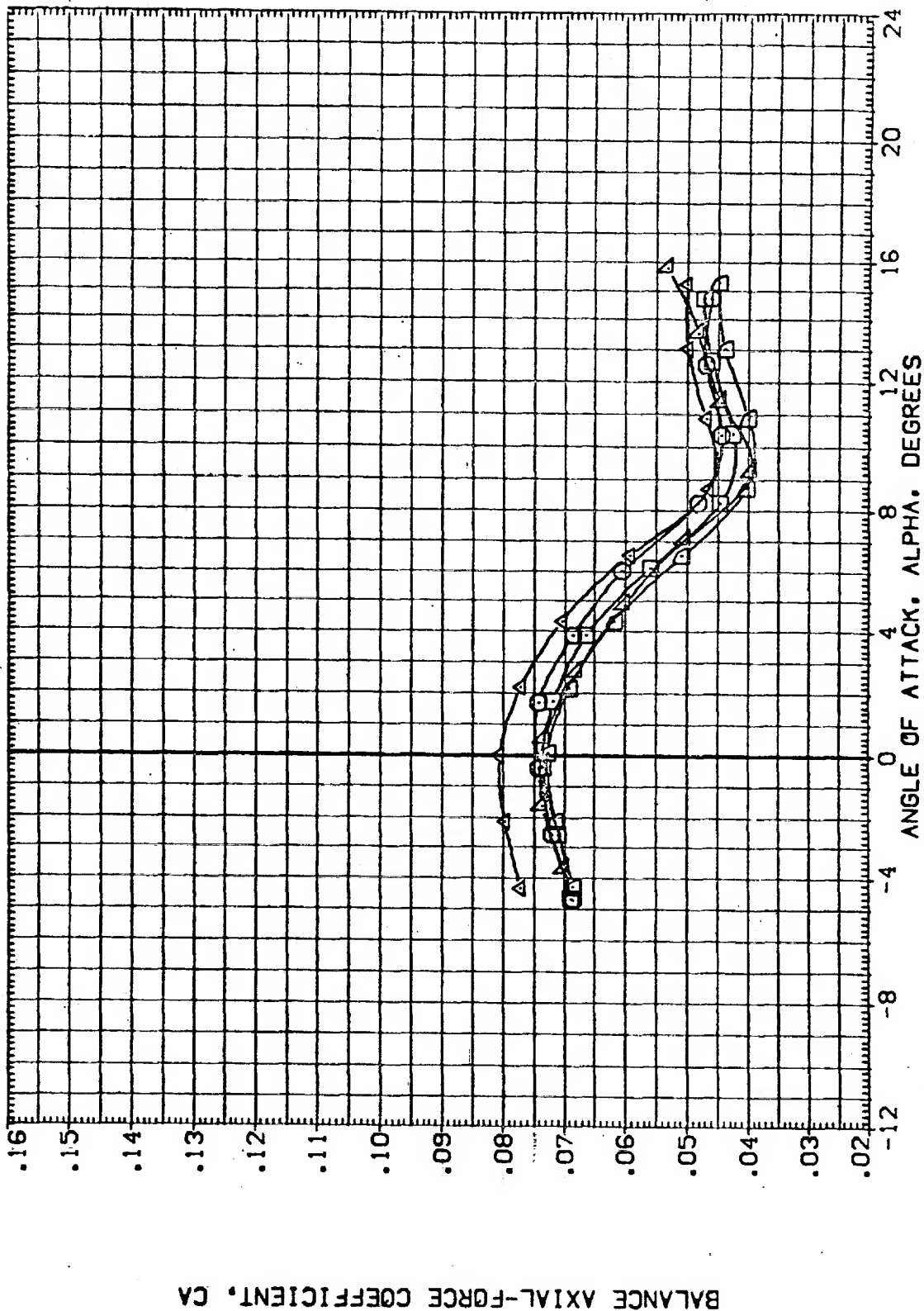


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BDELAP REFERENCE INFORMATION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 .000 -11.700 SREF .6053 50.FT.

(CER005) DATA NOT AVAILABLE .000 .000 16.300 LREF .5935 FT.

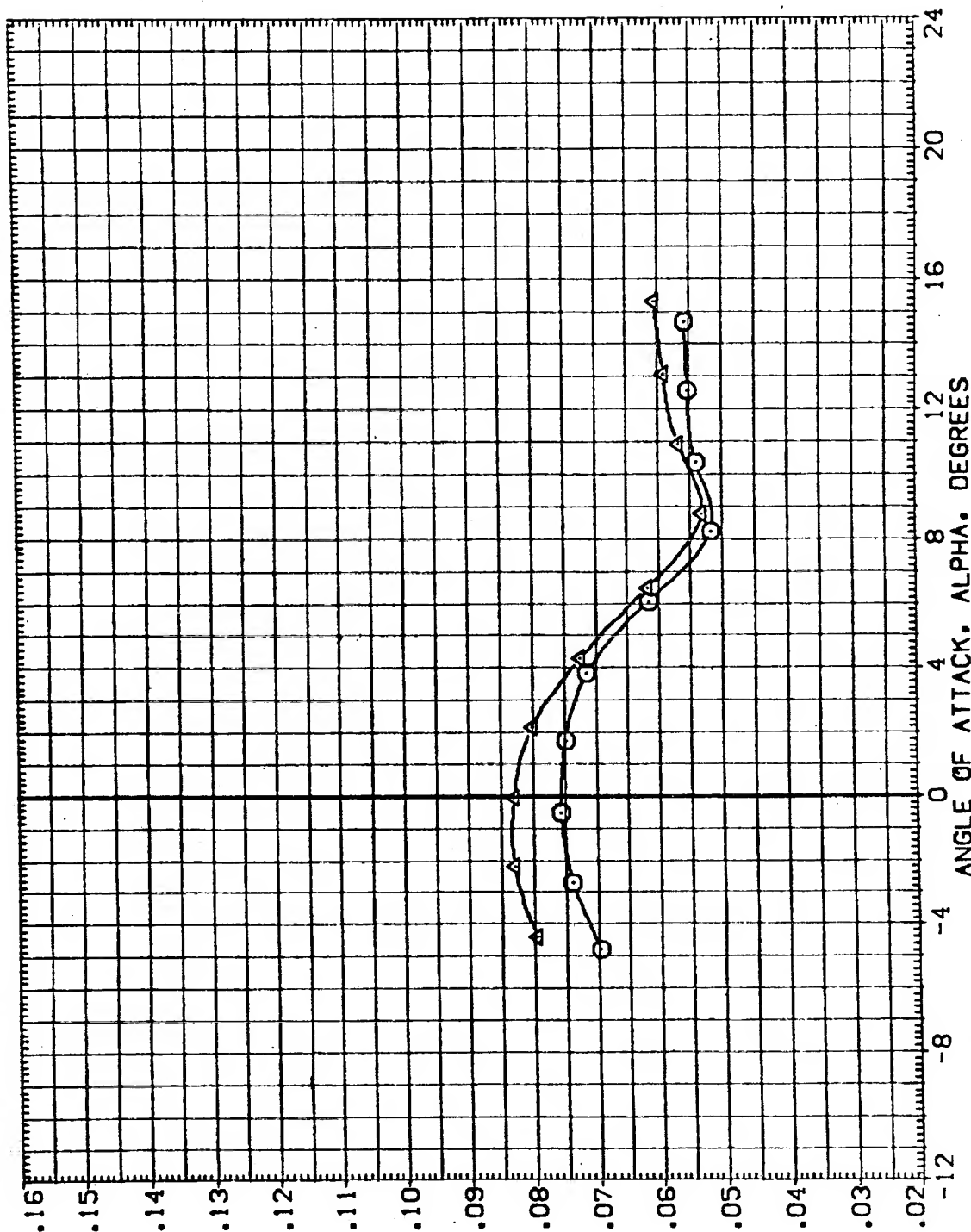
(CER006) DATA NOT AVAILABLE .000 .000 .500 BREF 1.1710 IN.

(CER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT .000 .000 -11.700 XMRP 12.6255 IN.

(CER014) DATA NOT AVAILABLE .000 .000 16.300 YMRP .0000 IN.

(CER015) DATA NOT AVAILABLE .000 .000 .0150 ZMRP -.3750 IN.

(CER015) DATA NOT AVAILABLE .000 .000 .0150 SCALE



BALANCE AXIAL-FORCE COEFFICIENT, CA

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBL. CONFIGURATION DESCRIPTION

ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+QJM STING
 ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+QJM STING
 DATA NOT AVAILABLE
 ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT
 ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION

SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

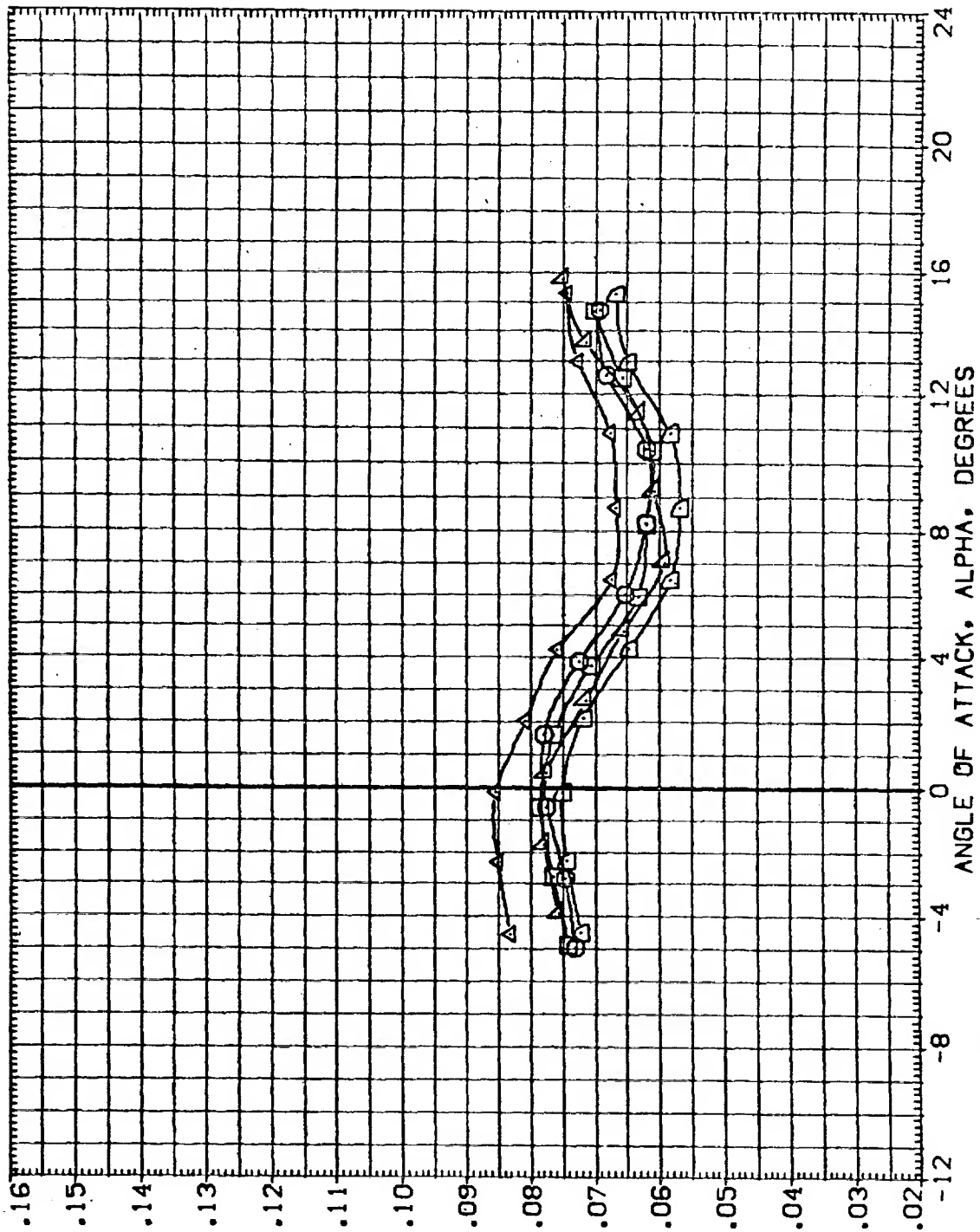


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

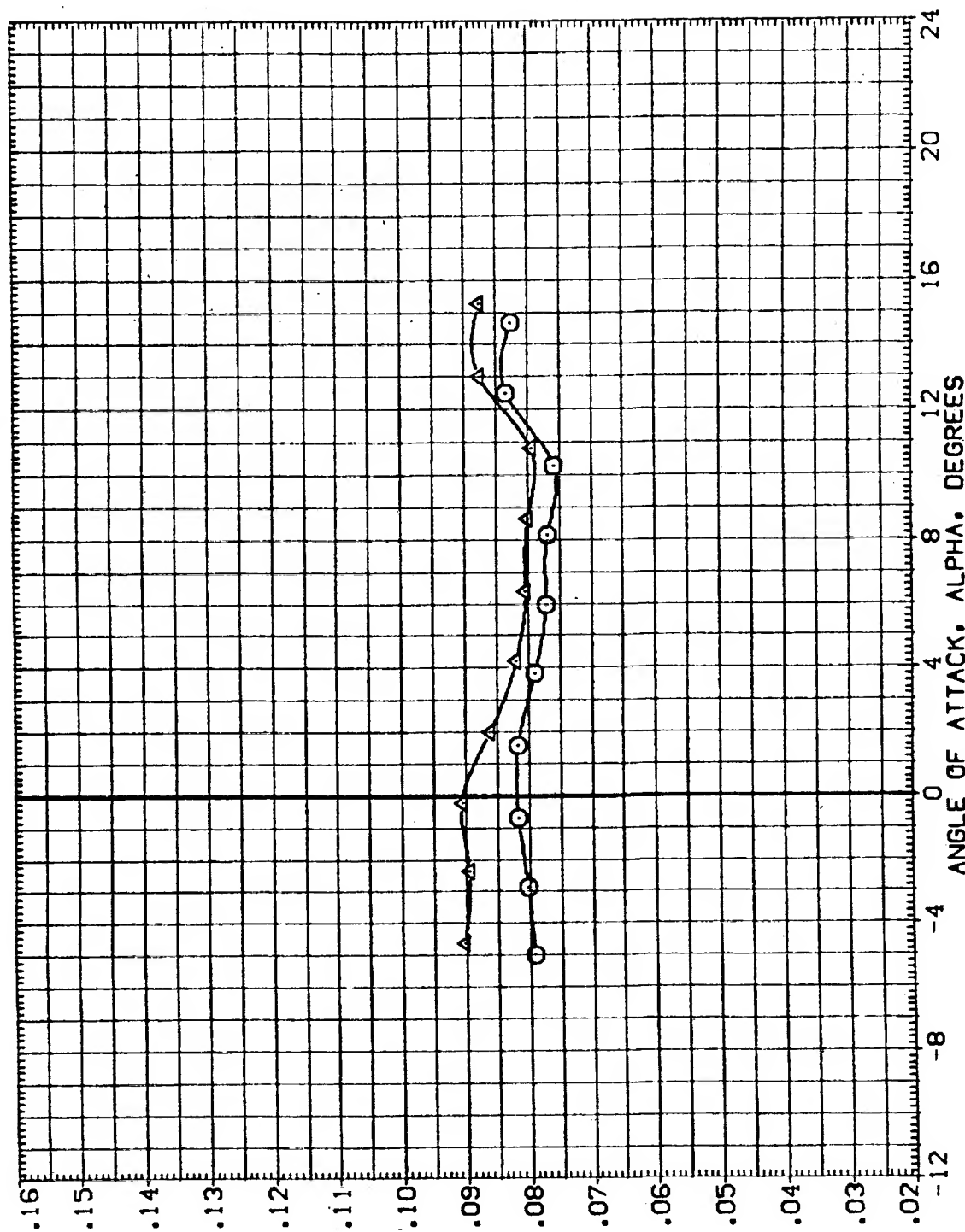
COMACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(CER001)	ARC 66-709 DASS DA111A-(N24 R5 V81)+STRUT+DUM STNG	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	BREF 1.1710 FT.
(CER012)	ARC 66-709 DASS DA111A-(R5 V81)+STRUT	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	ZMRP -.3750 IN.
		SCALE .0150

BETA ELEVON BDFLAP

.000	.000	-11.700
.000	.000	16.300
.000	.000	.000
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

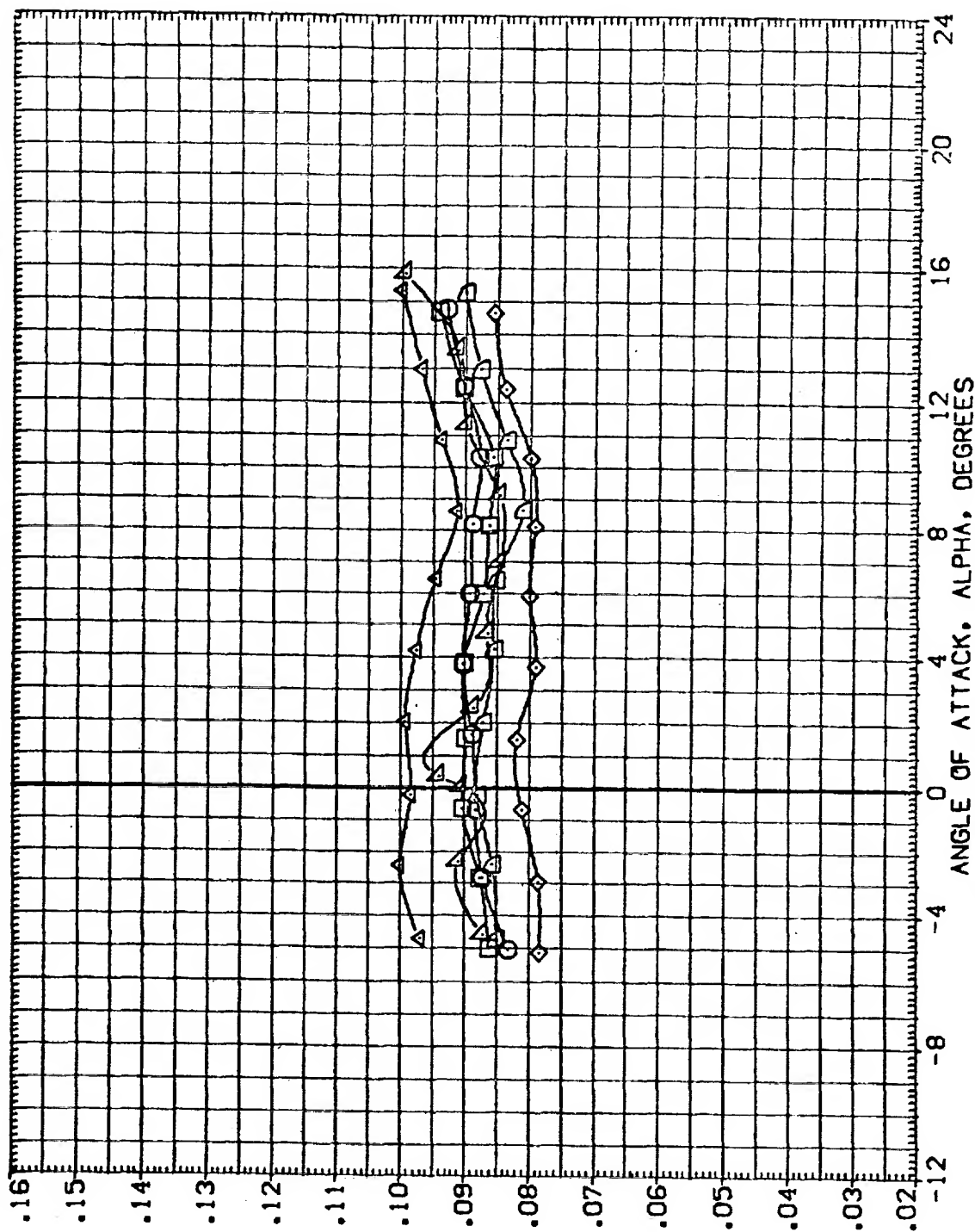


BALANCE AXIAL-FORCE COEFFICIENT, CA

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER008}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE AXIAL-FORCE COEFFICIENT, C_A

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	.000
	16.300
	.000
	.000
	-11.700
	.000
	16.300
	.000

DATA SET SYMBOL

(CER001)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG
(CER005)	DATA NOT AVAILABLE
(CER006)	DATA NOT AVAILABLE
(CER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT
(CER014)	DATA NOT AVAILABLE
(CER015)	DATA NOT AVAILABLE

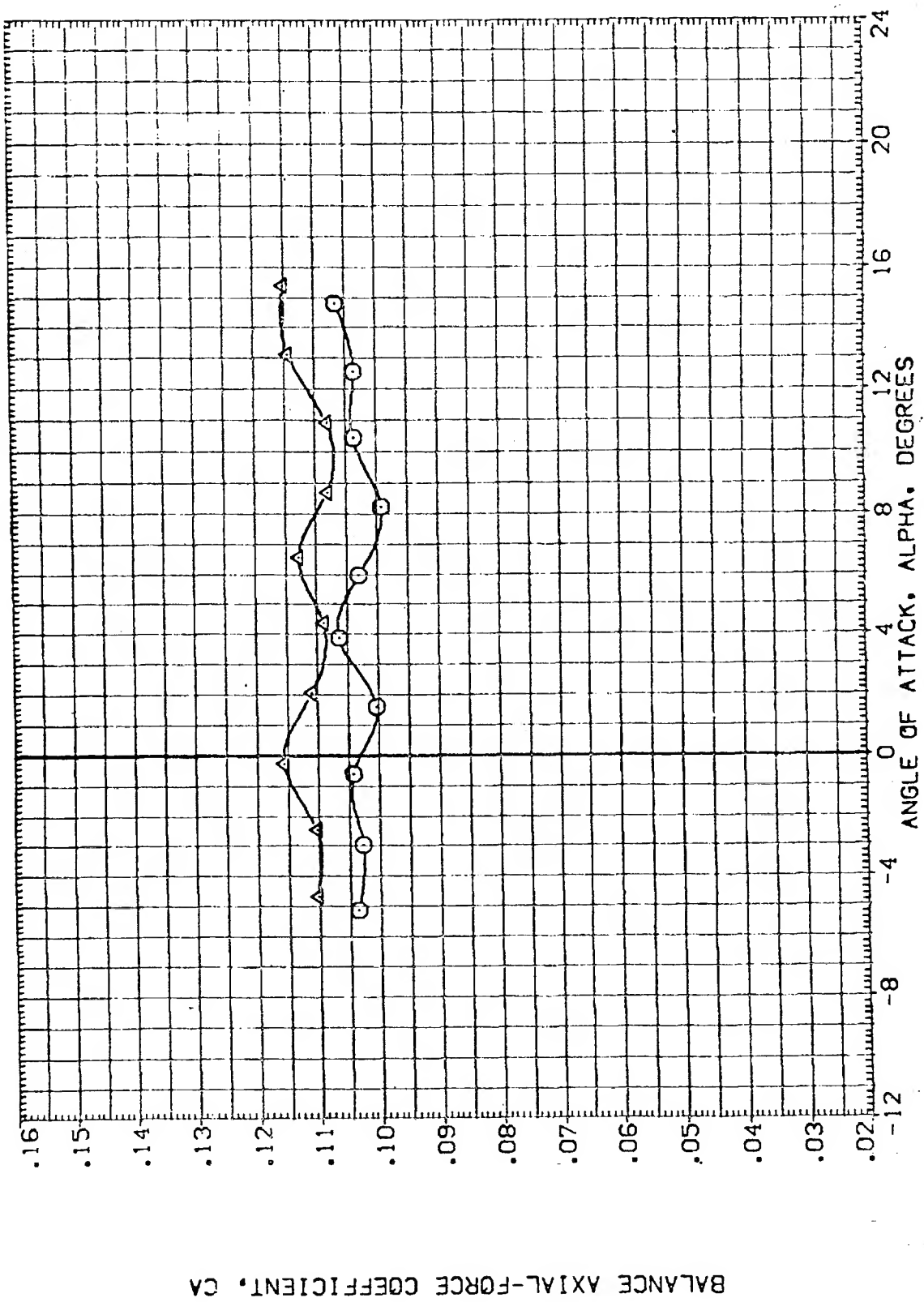


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	YMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

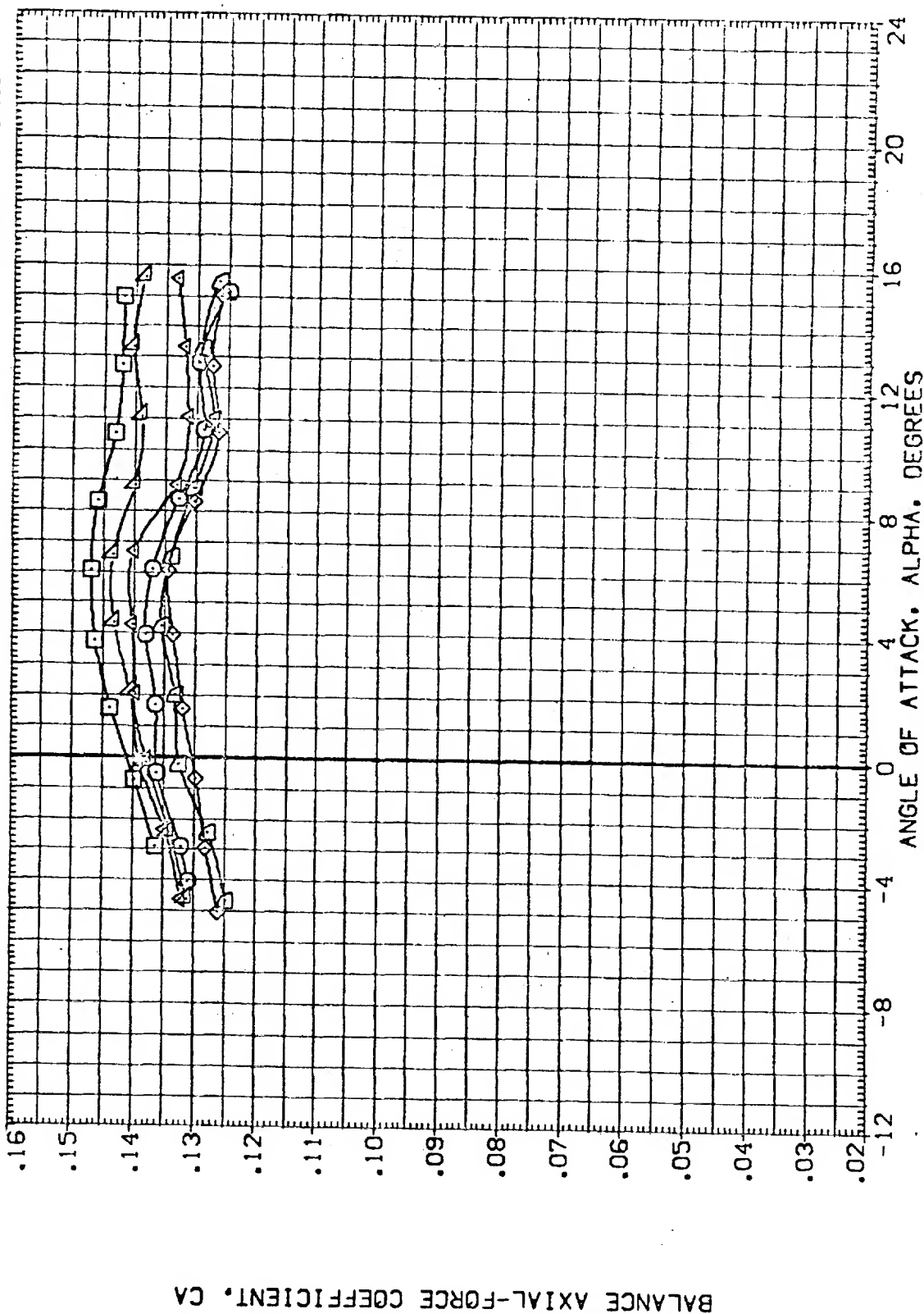
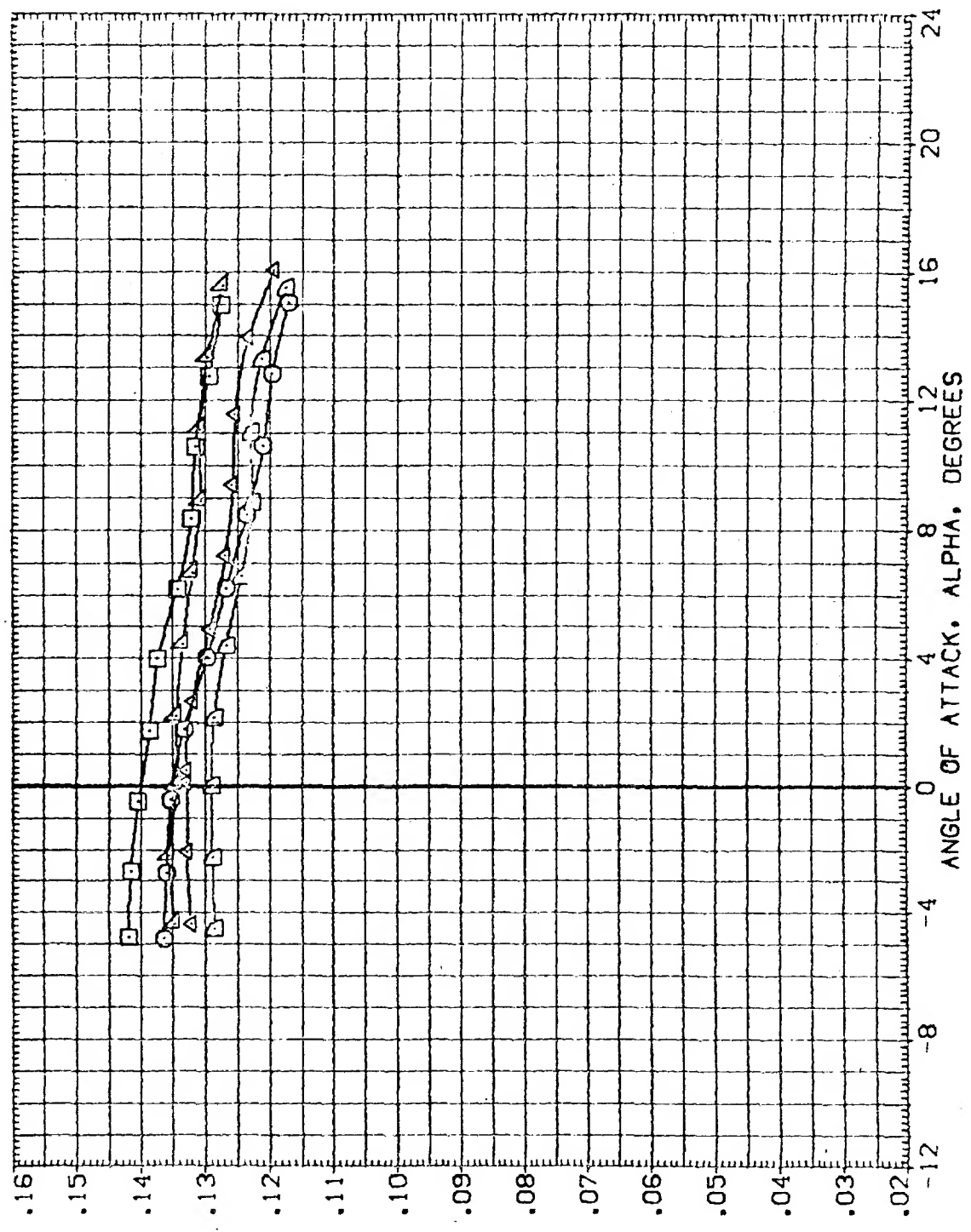


FIG. 5 BODY-FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 QALIA-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 QAS9 QALIA-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5933 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 QALIA-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	ARC 66-709 QAS9 QALIA-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 QALIA-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE AXIAL-FORCE COEFFICIENT, CA

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

BALANCE AXIAL-FORCE COEFFICIENT, CA

ARC 66-709 QAS9 QAI 1A-(N24 R5 V81)+STRUT+DUM STING
ARC 66-709 QAS9 QAI 1A-(N24 R5 V81)+STRUT+DUM STING
ARC 66-709 QAS9 QAI 1A-(R5 V81)+STRUT
ARC 66-709 QAS9 QAI 1A-(R5 V81)+STRUT
ARC 66-709 QAS9 QAI 1A-(R5 V81)+STRUT

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

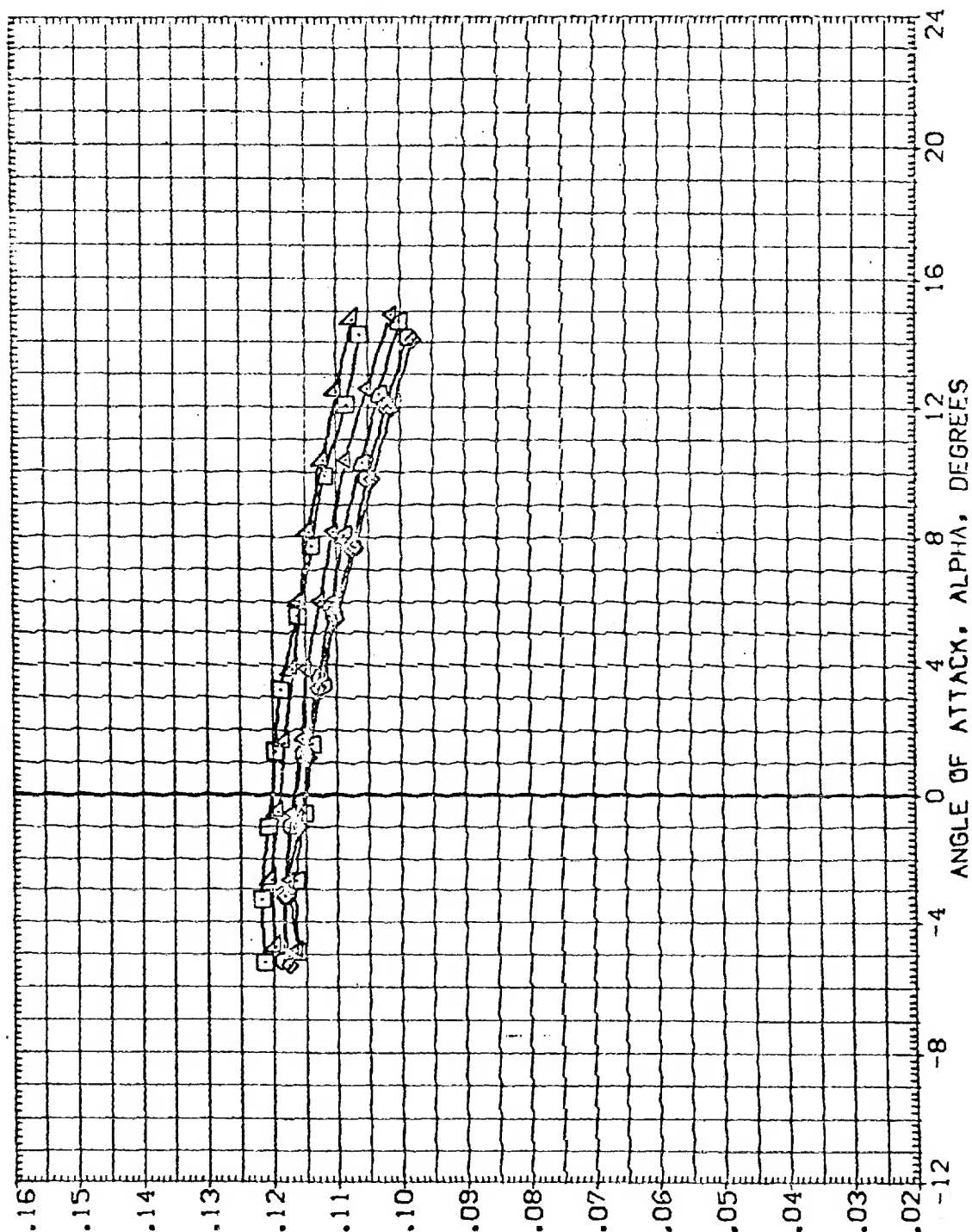


FIG. 5. BODY FLAP EFFECTS DURING TARE PITCH RUNS

$(J)_{MACH} = 2.00$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(CER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 0A11A-(RS V8)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

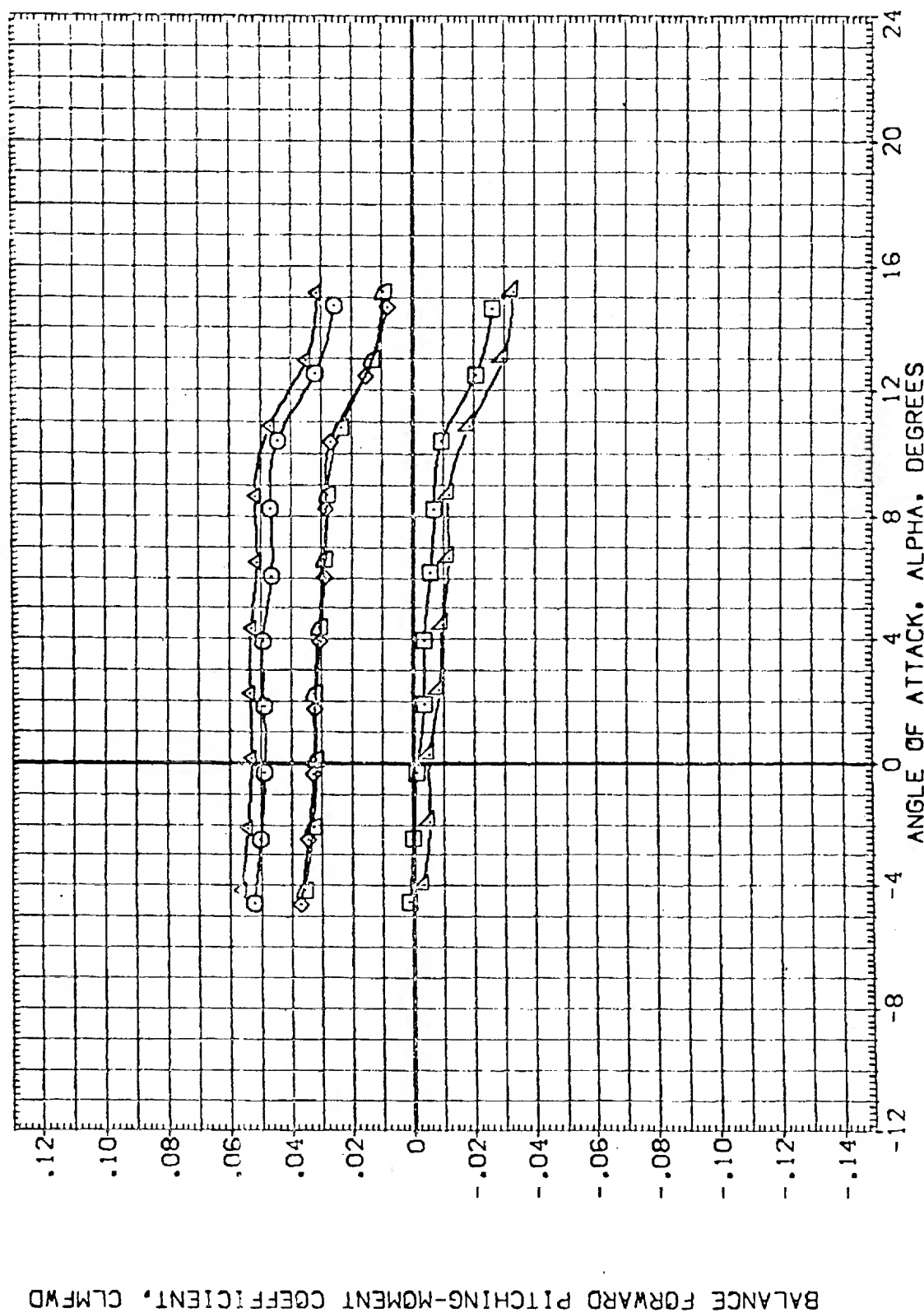


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA59 DA11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DA59 DA11A-(N24 RS V81+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

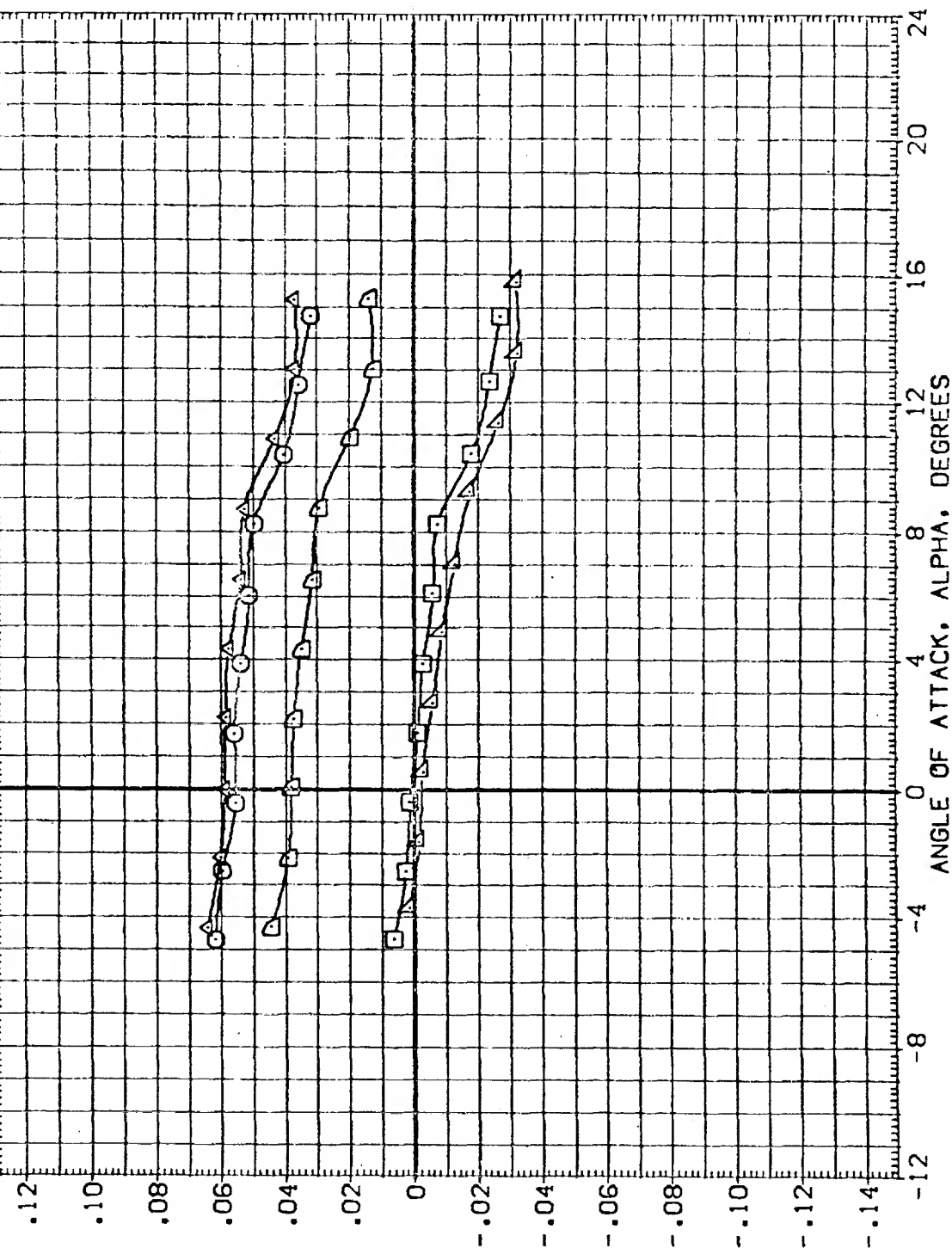
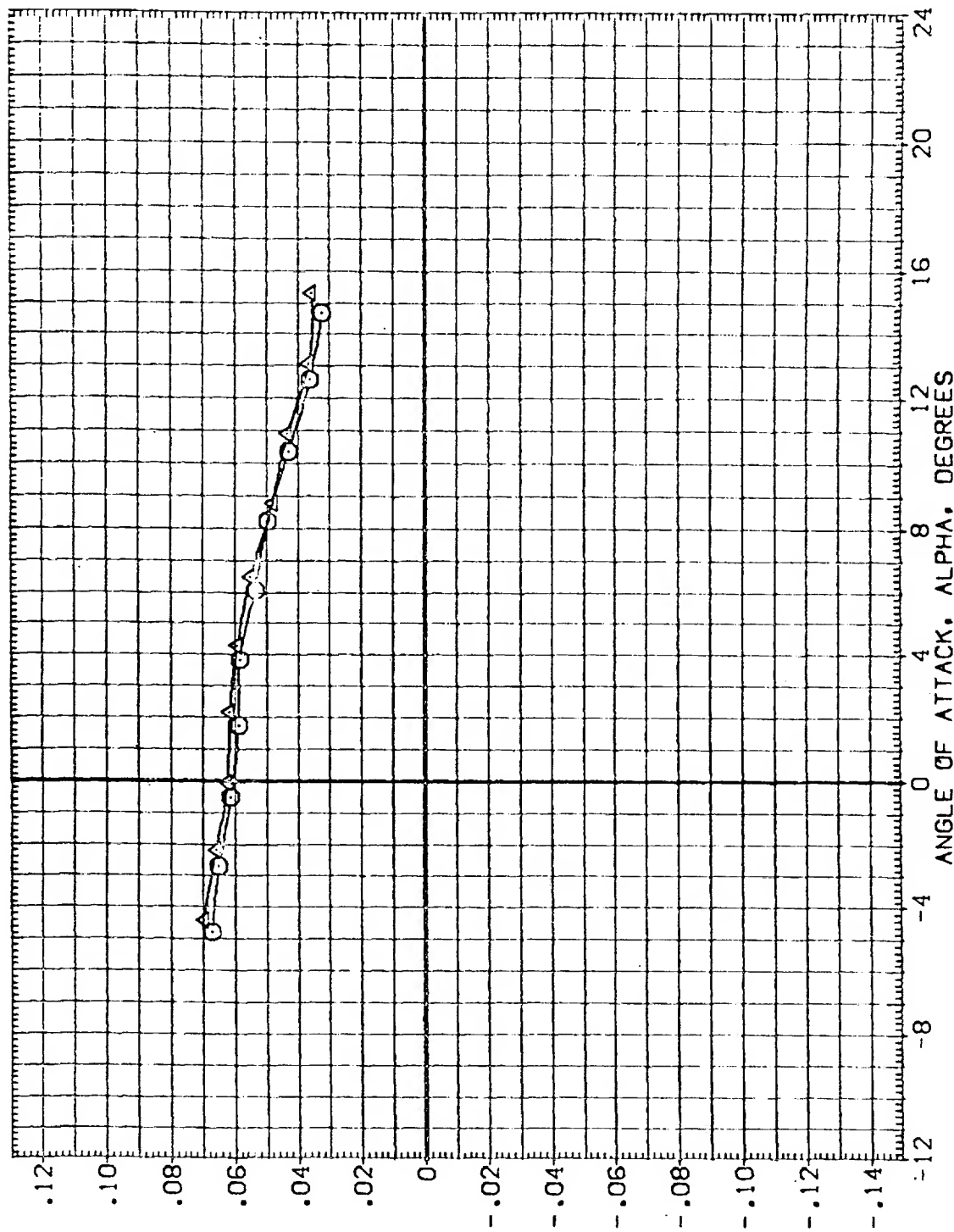


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 OA11A-(N24 R5 V8)-STRUT+QUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 OA11A-(R5 V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

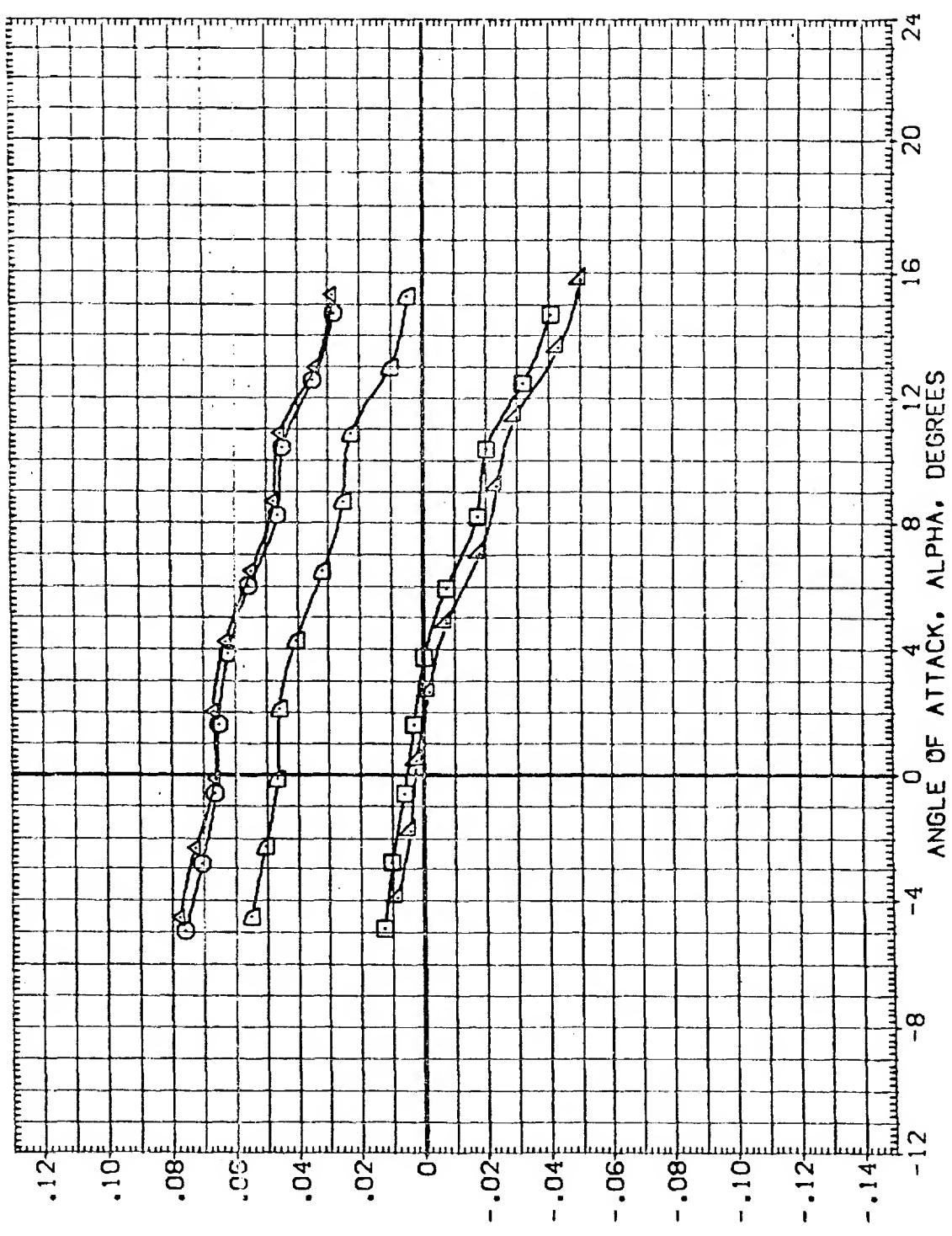


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

{C}MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG

(CER005) DATA NOT AVAILABLE

(CER006) DATA NOT AVAILABLE

(CER012) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

(CER014) DATA NOT AVAILABLE

(CER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF 6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

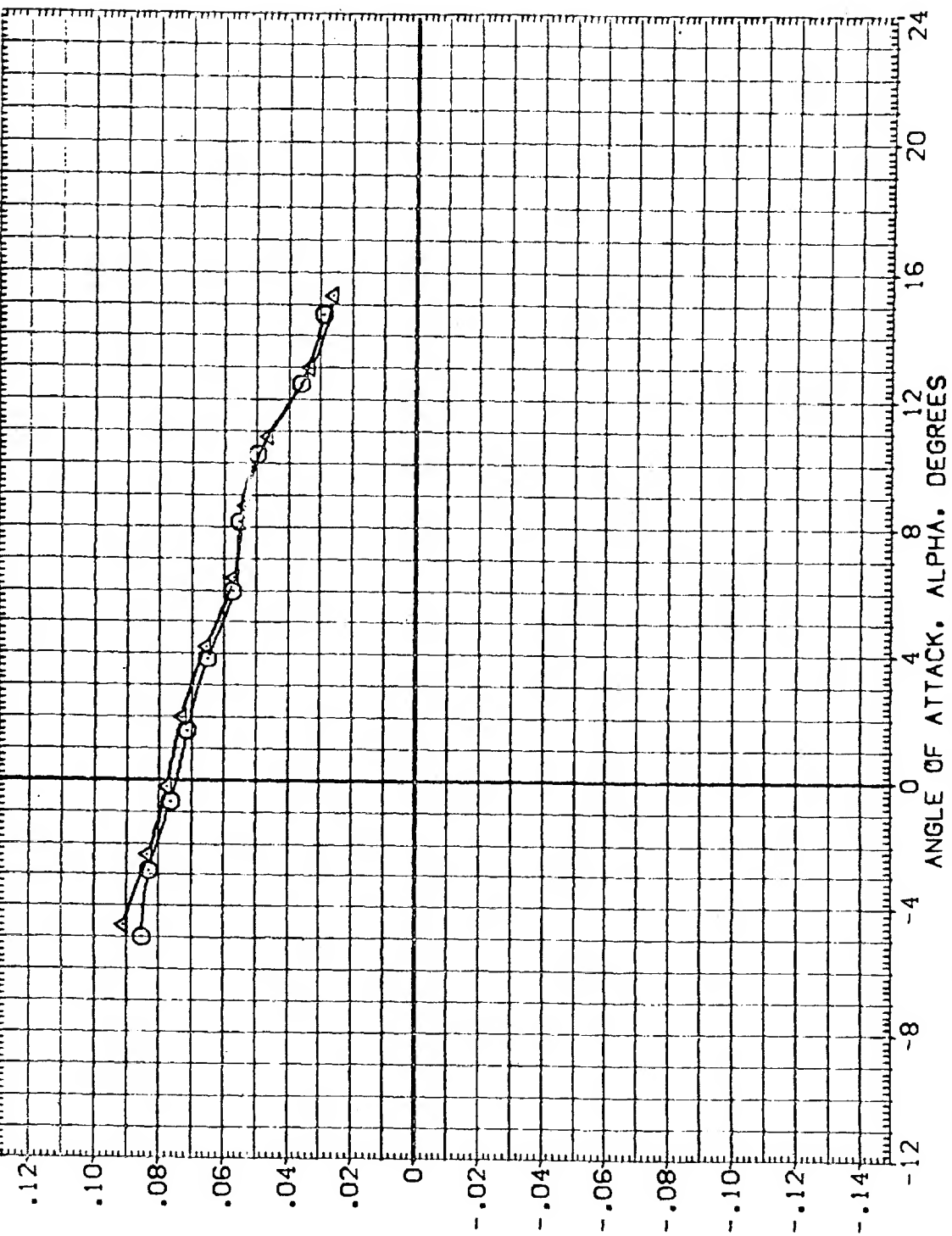


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

REFERENCE INFORMATION

SREF	.6053	50. FT.
LREF	.5935	FT.
BREF	1.1710	FT.
YMRP	12.6755	IN.
ZMRP	.0000	IN.
SCALE	-.3750	IN.
	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	0A59	0A11A-(N24 RS V8)+STRUT+DUM STING
ARC 66-709	0A59	0A11A-(N24 RS V8)+STRUT+DUM STING
ARC 66-709	0A59	0A11A-(N24 RS V8)+STRUT+DUM STING
ARC 66-709	0A59	0A11A-(RS V8)+STRUT
ARC 66-709	0A59	0A11A-(RS V8)+STRUT

DATA SET SYMBOL

(CER001)	○
(CER005)	□
(CER006)	△
(CER012)	◇
(CER014)	×
(CER015)	○

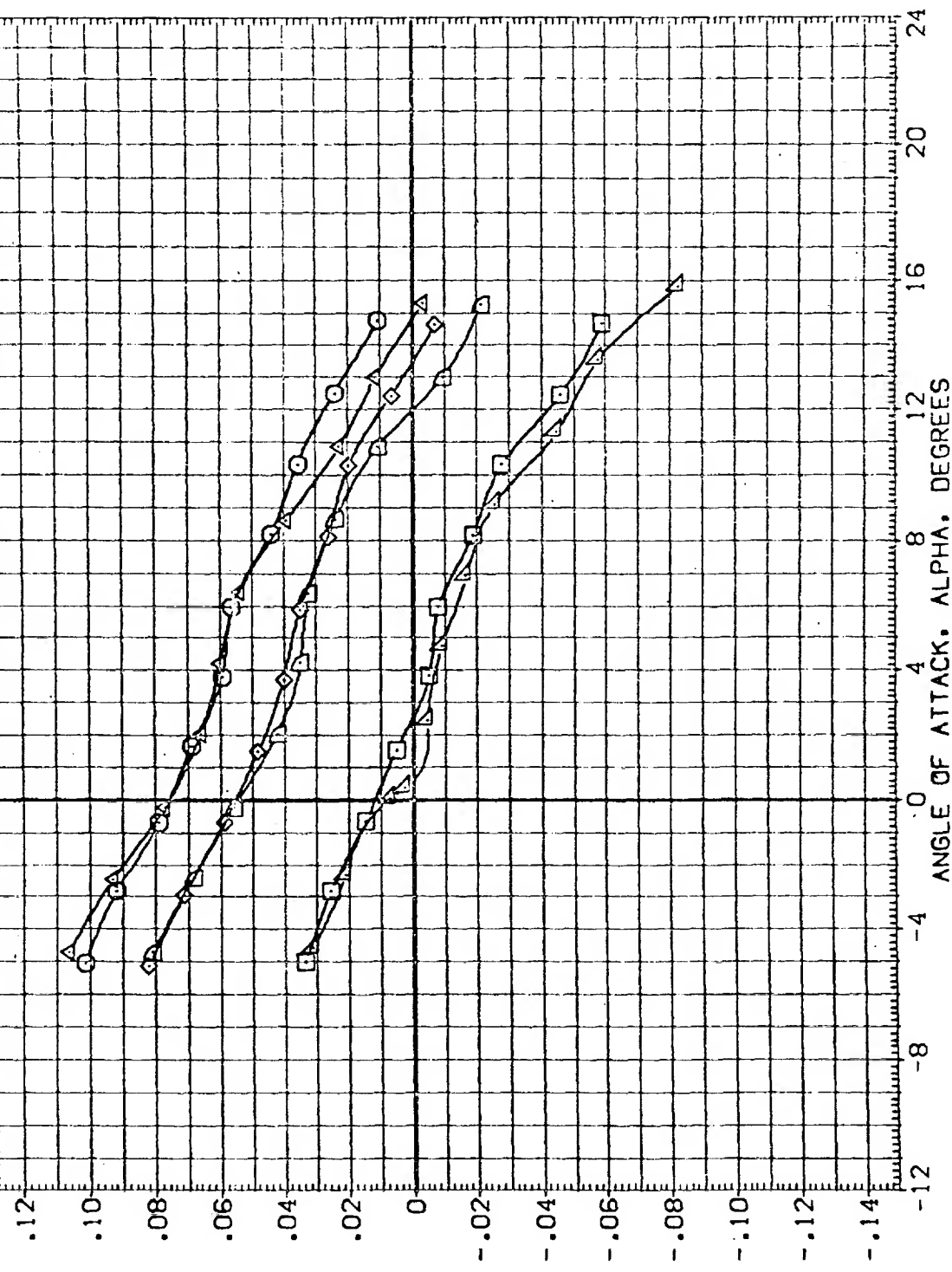


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

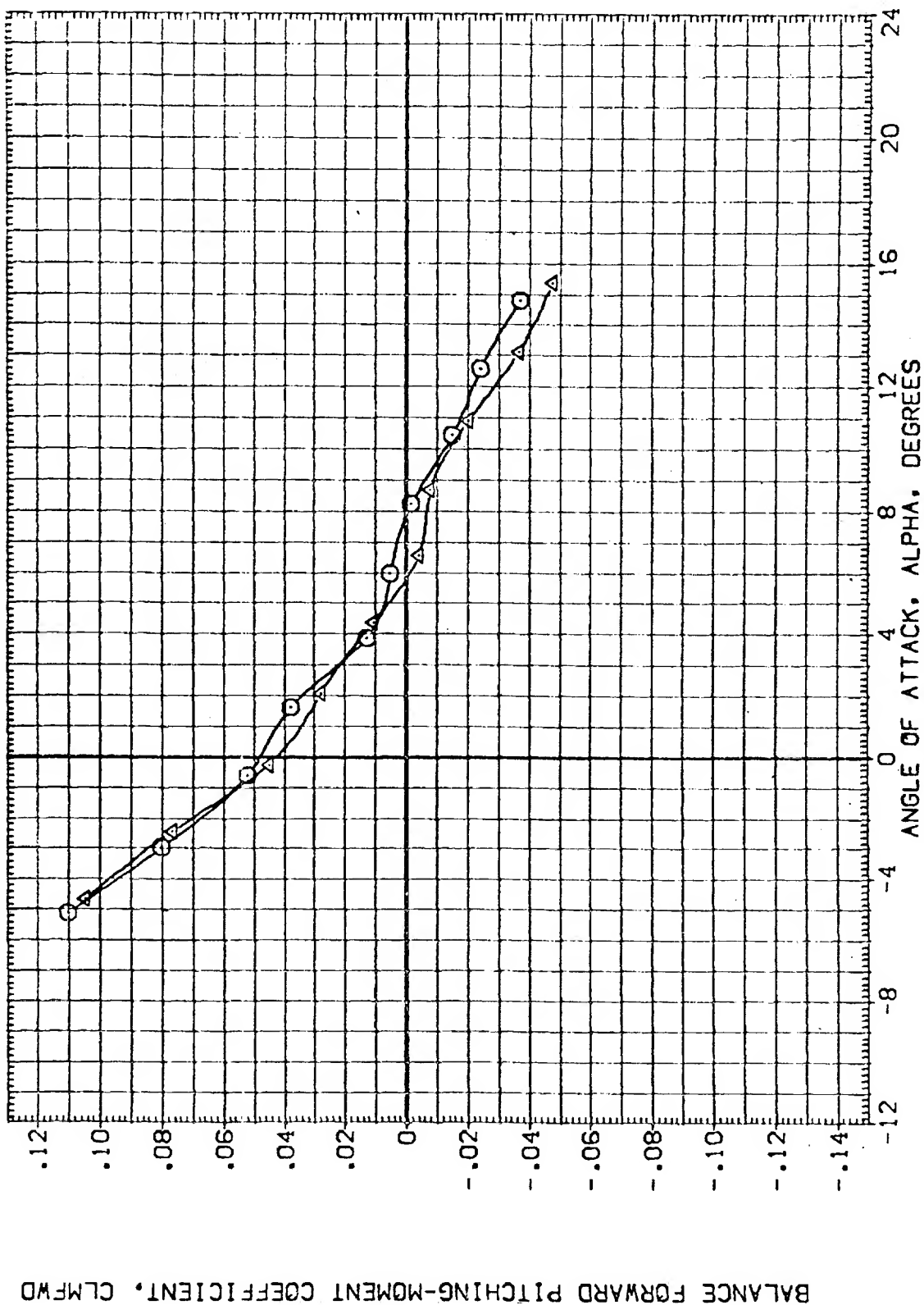


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET: SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

BALANCE FORWARD PITCHING-MOMENT COEFFICIENT, CLMFW

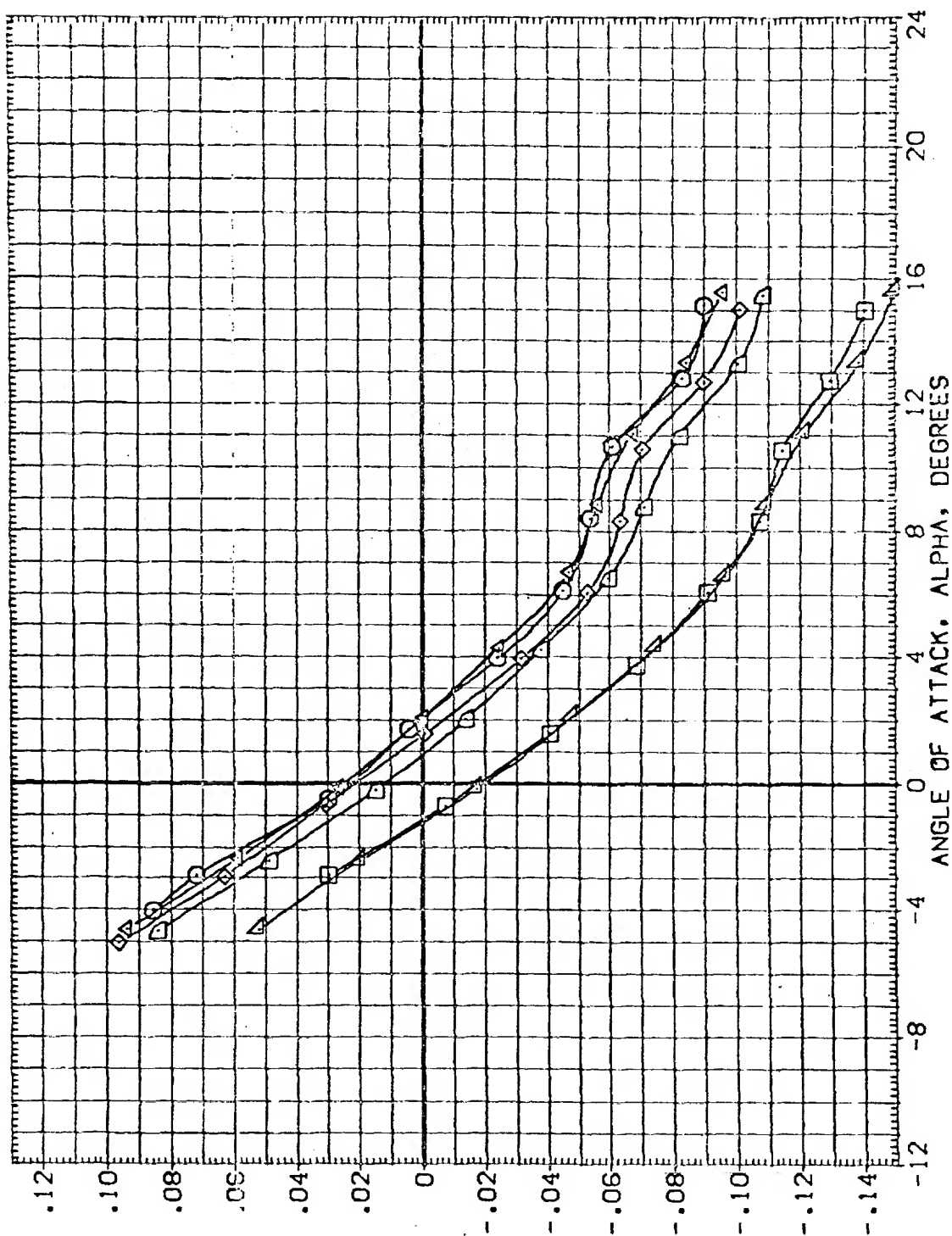
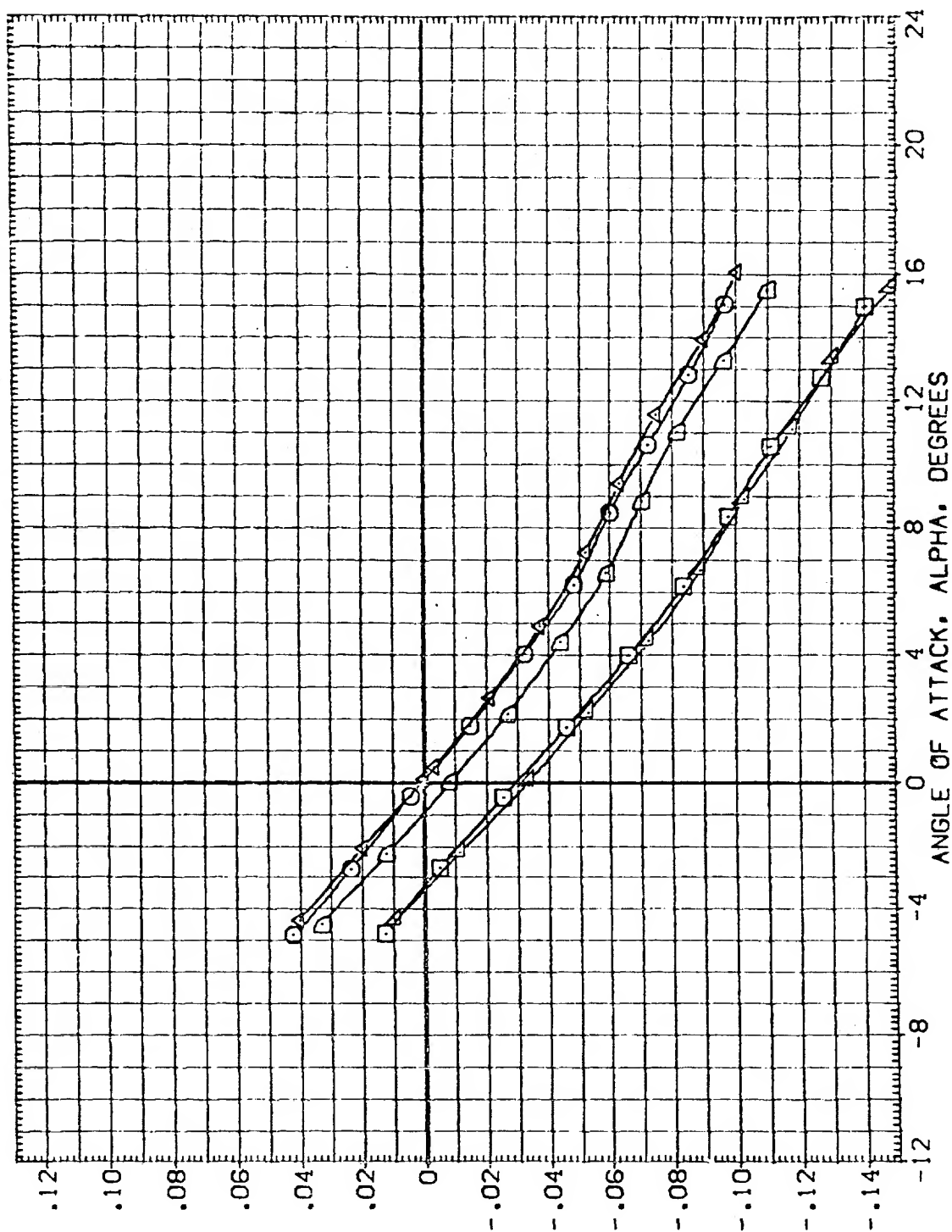


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6735 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



CLMFD BALANCE FORWARD PITCHING-MOMENT COEFFICIENT.

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

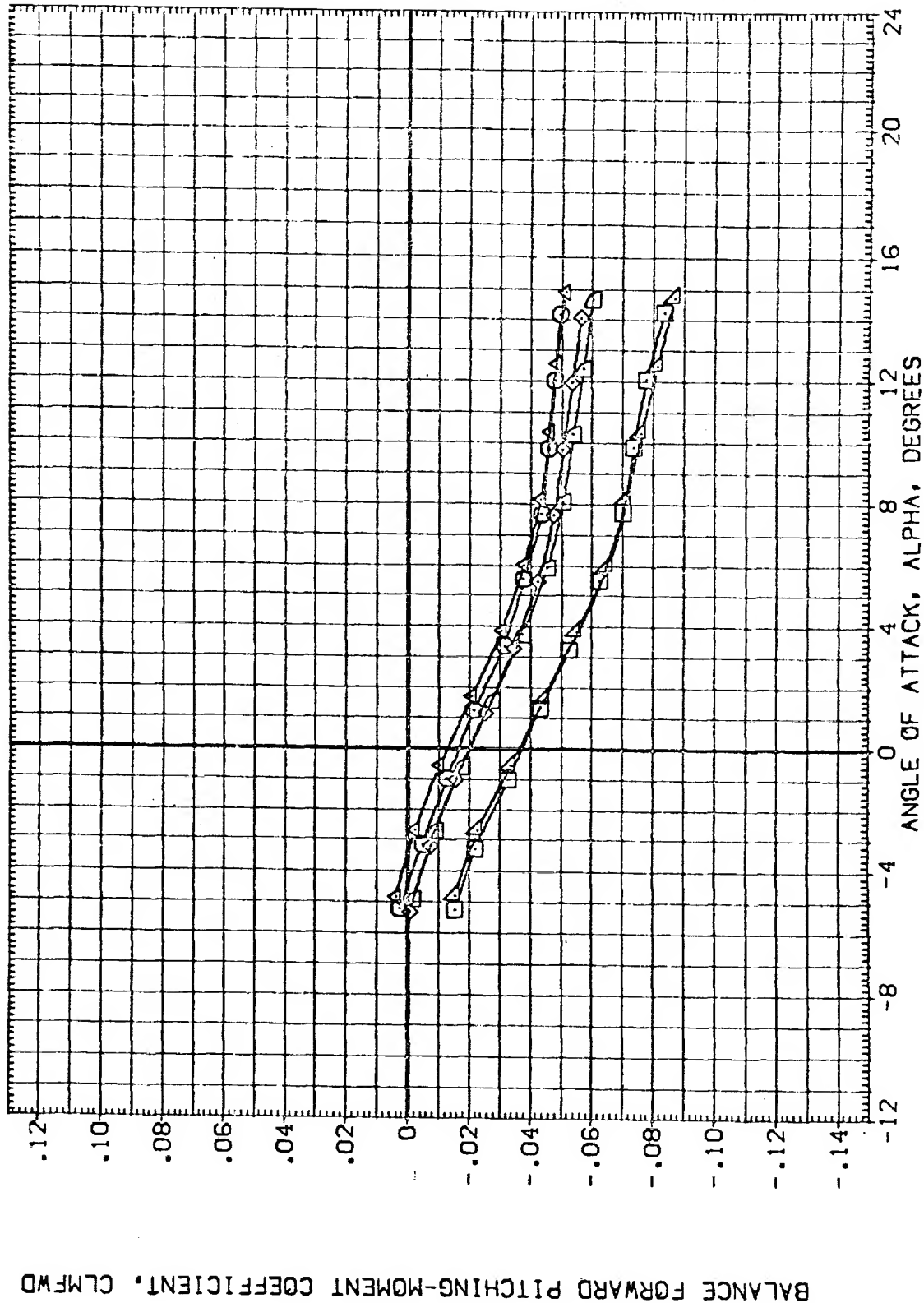
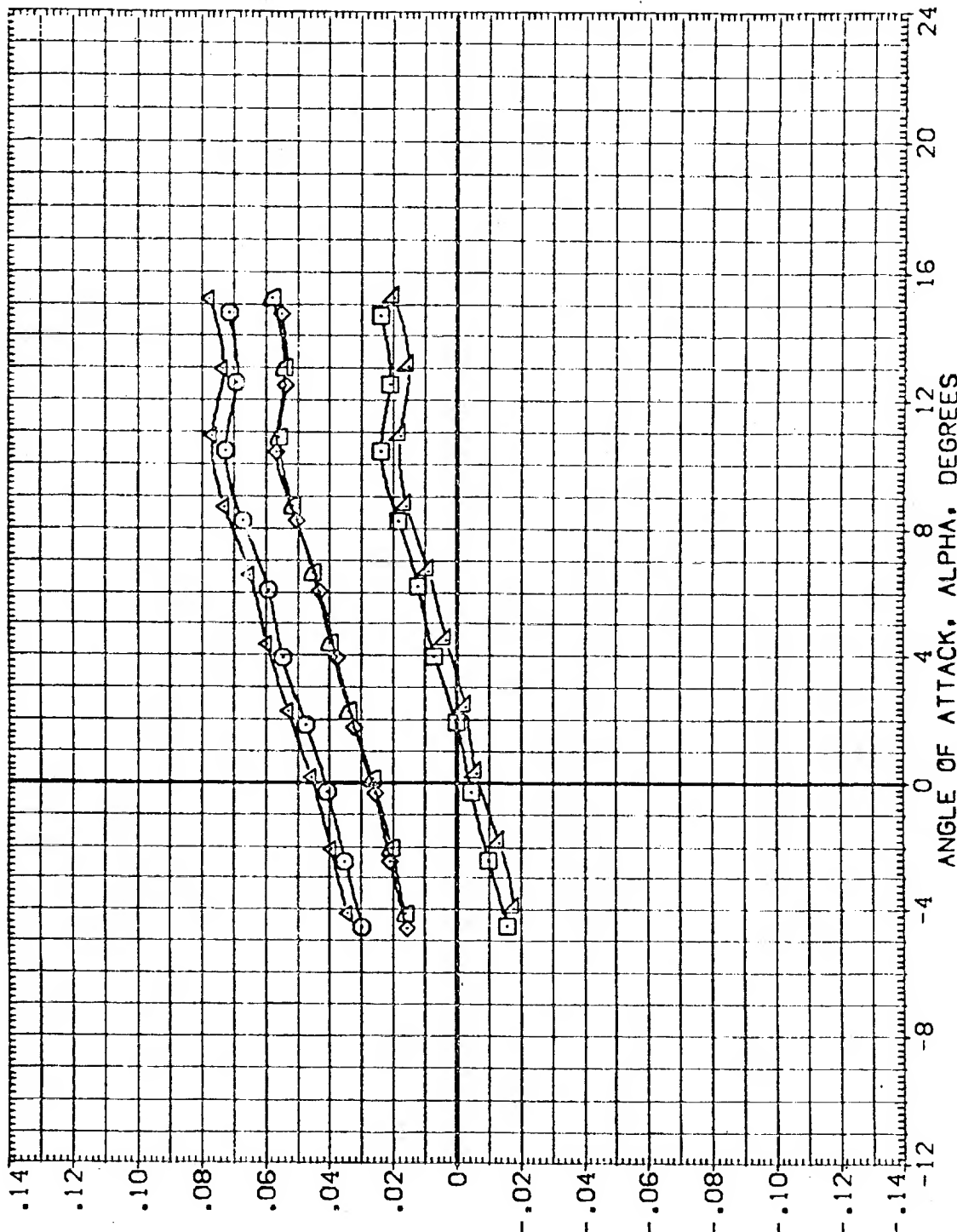


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1/10
(CER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CLMAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

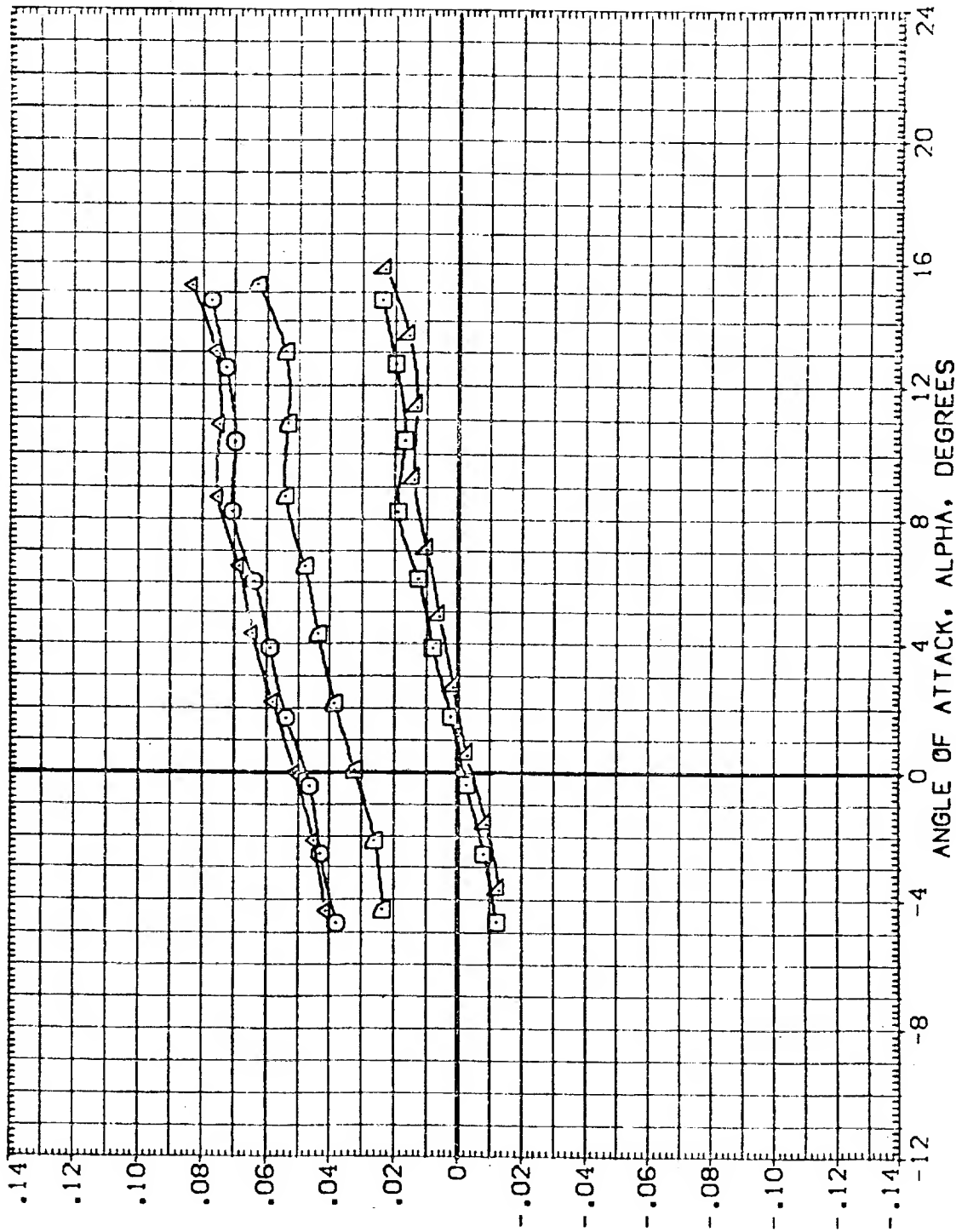
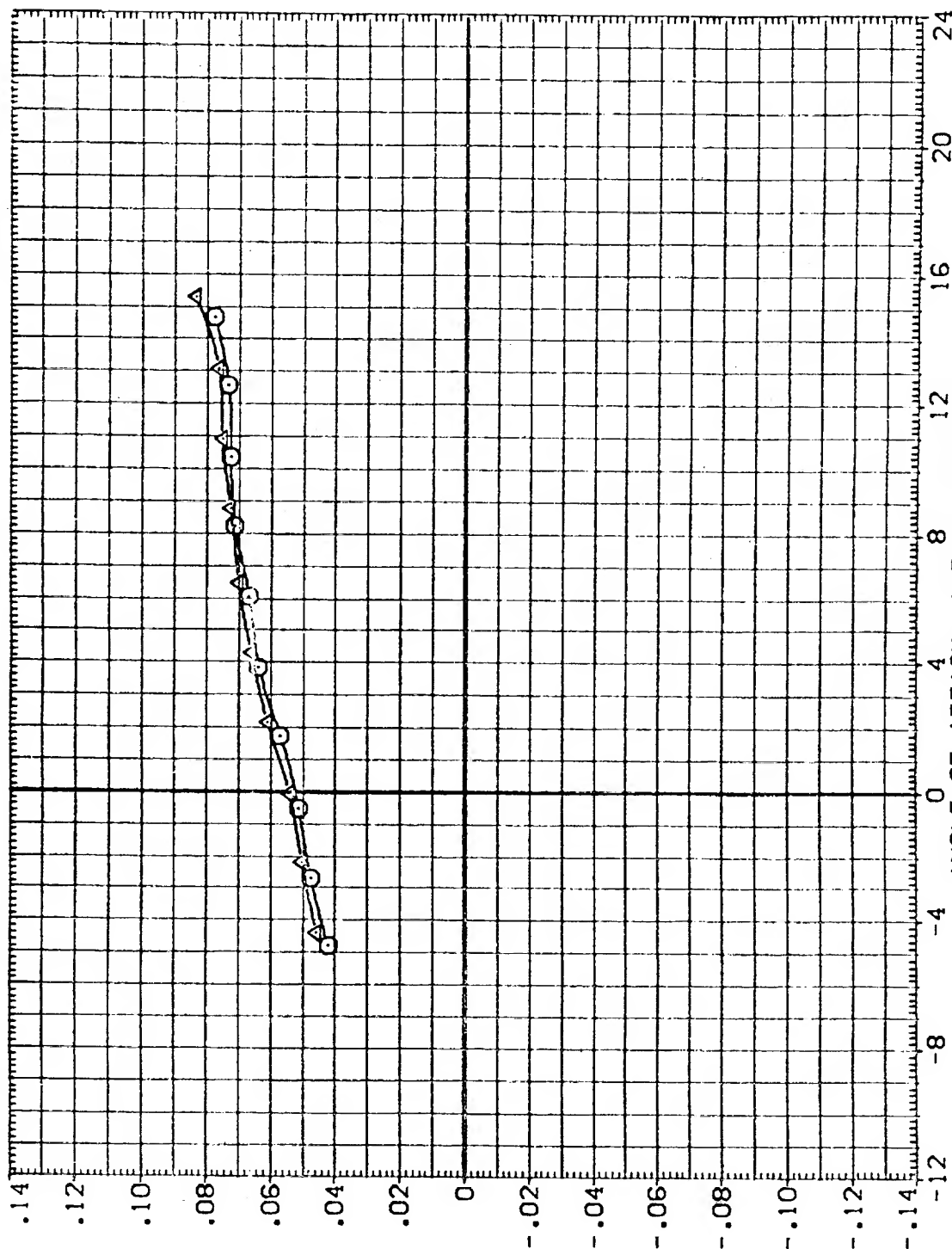


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



Balance Aft Pitching-Moment Coefficient, CMAFI

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[CER001]	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[CER005]	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5835 FT.
[CER006]	ARC 66-709 QAS9 QAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
[CER012]	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[CER014]	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[CER015]	ARC 66-709 QAS9 QAI1A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

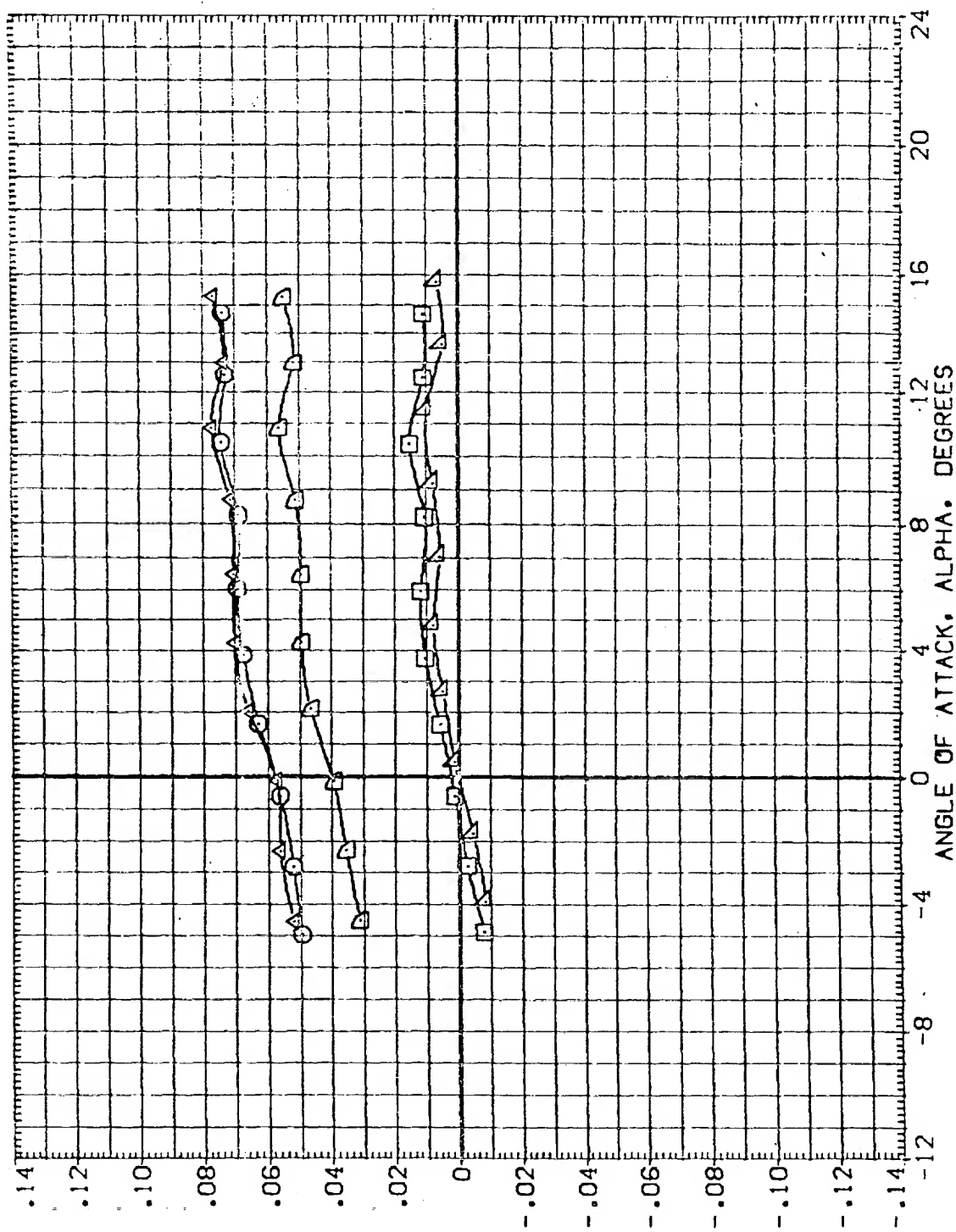
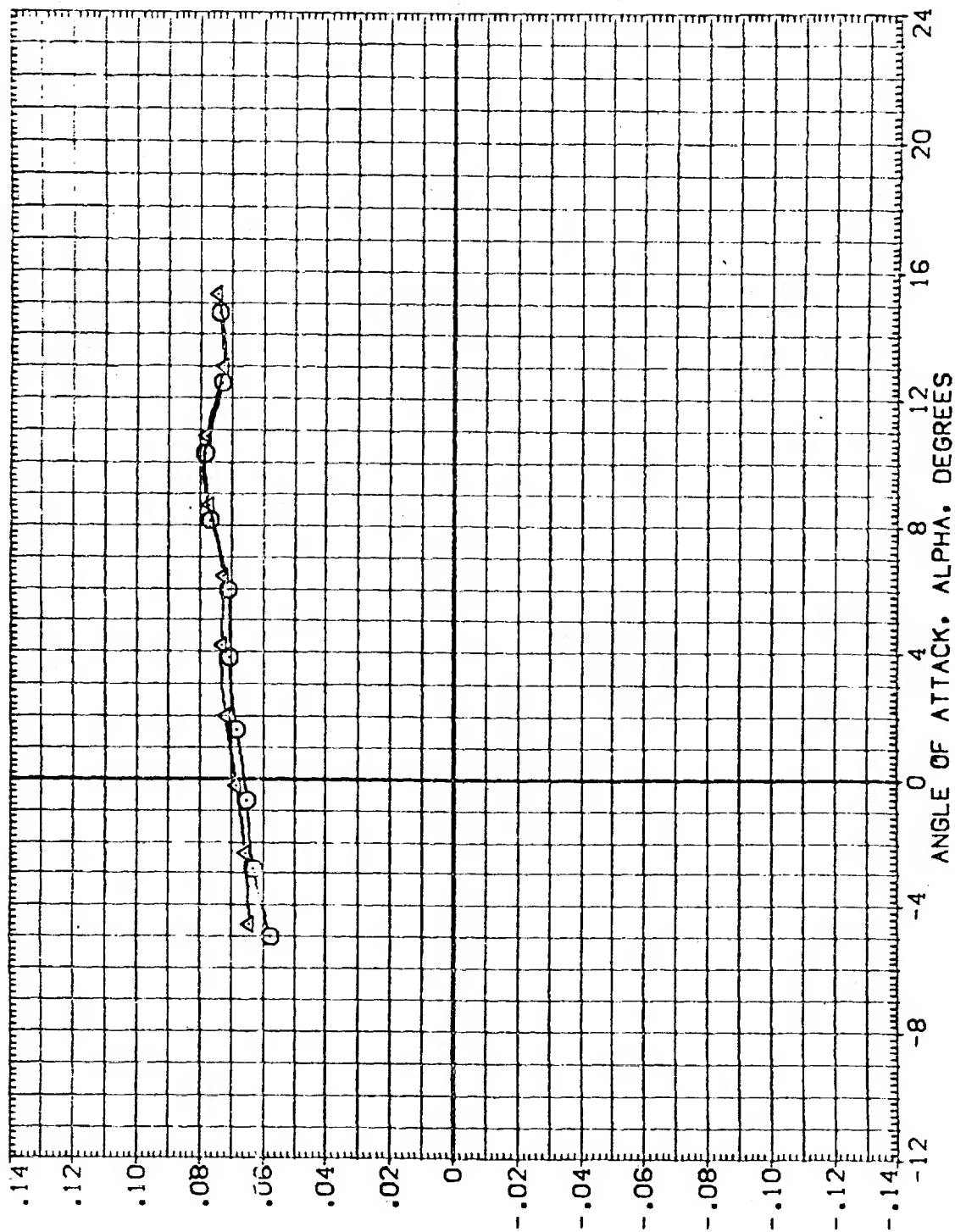


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOE LAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



BALANCE AFT PITCHING-MOMENT COEFFICIENT, CLMAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

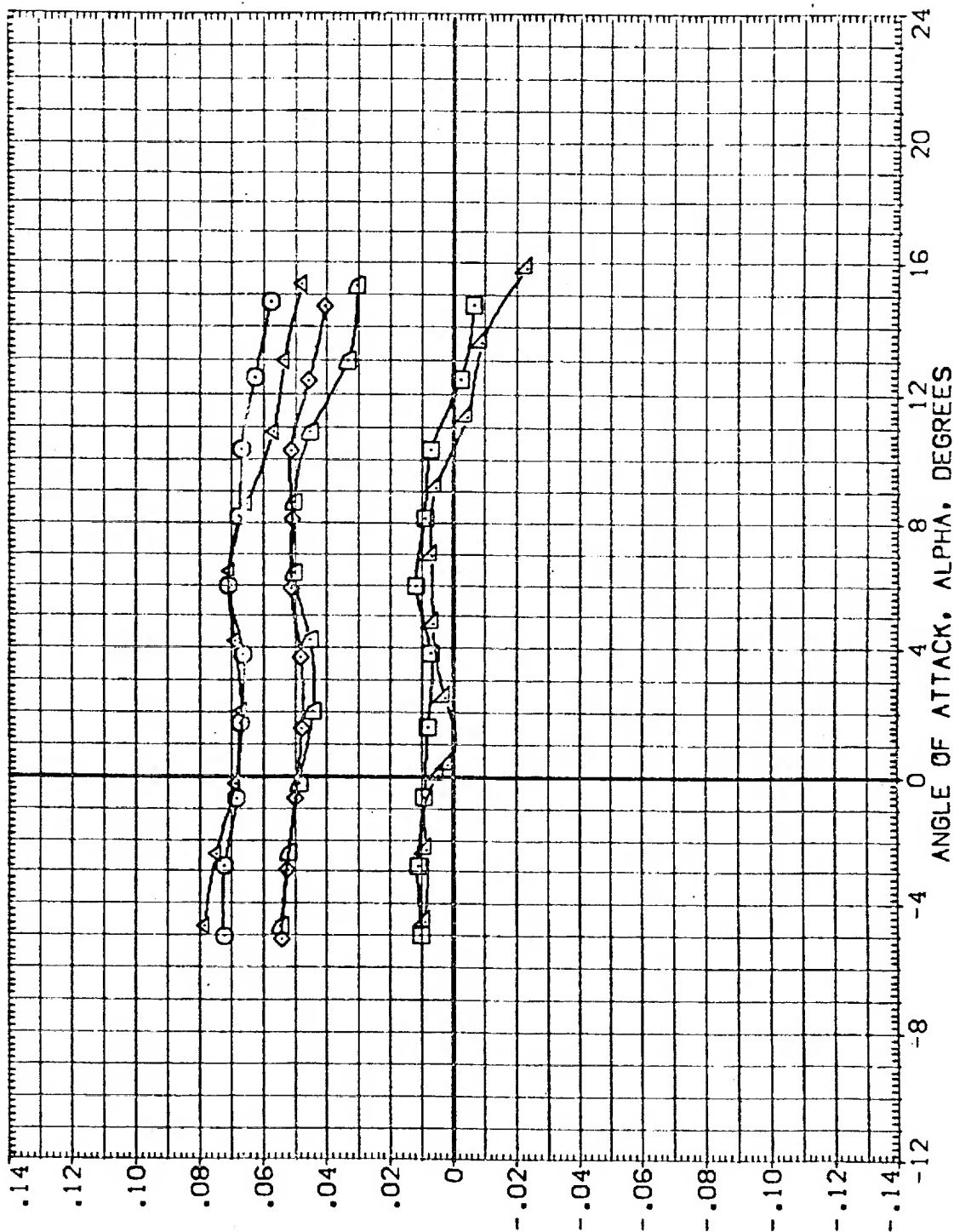
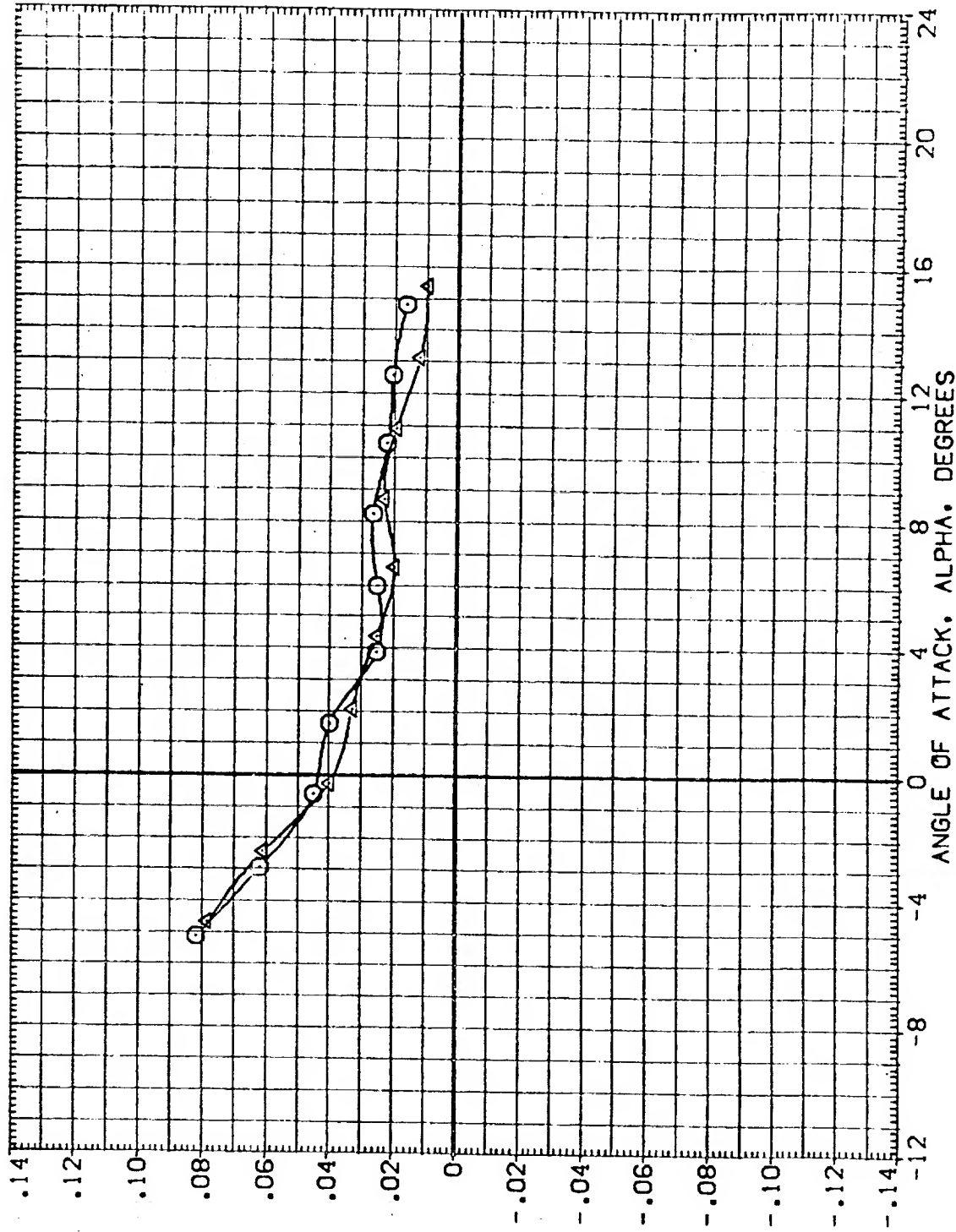


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



Balance Aft Pitching-Moment Coefficient, CLMAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

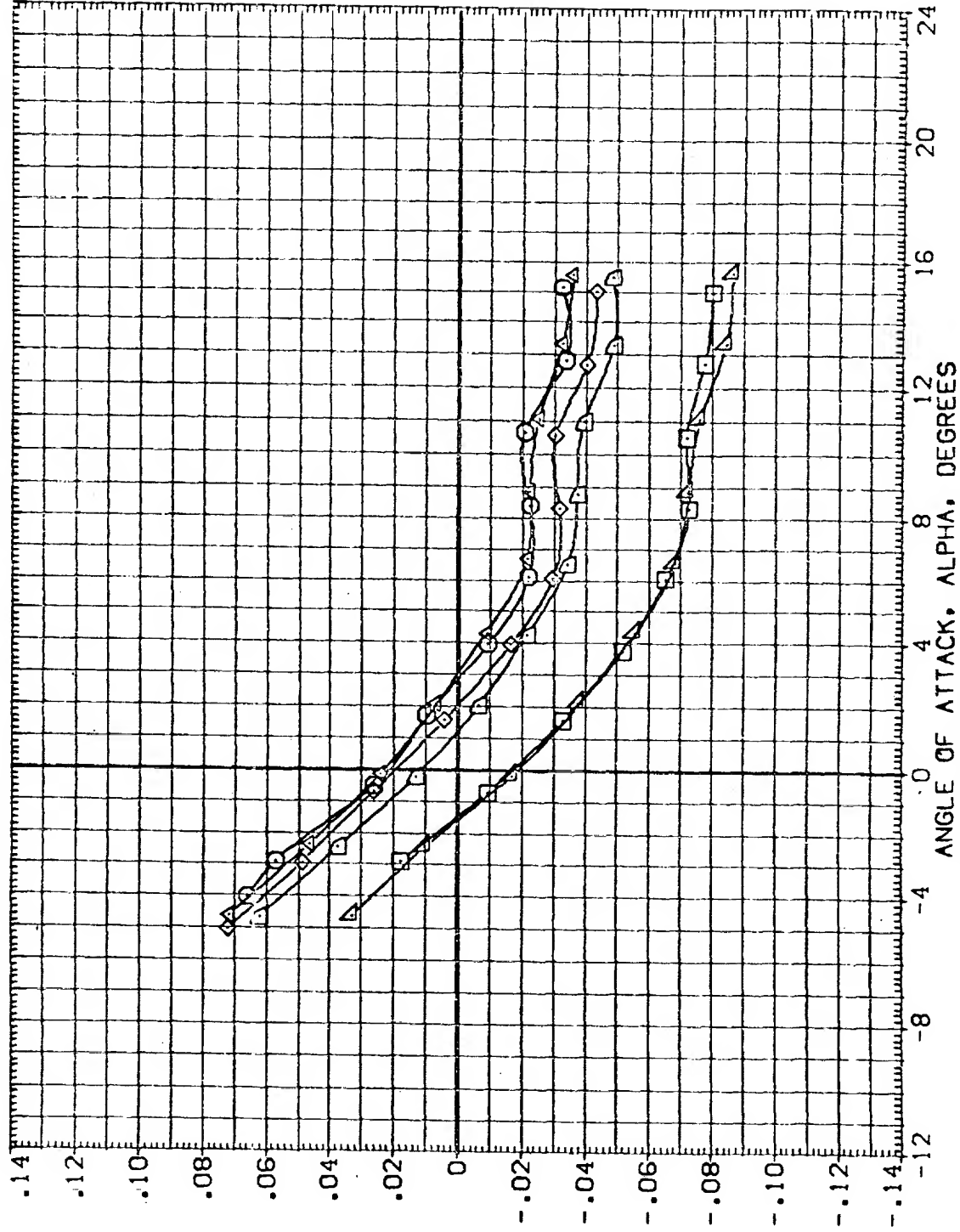


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER014)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

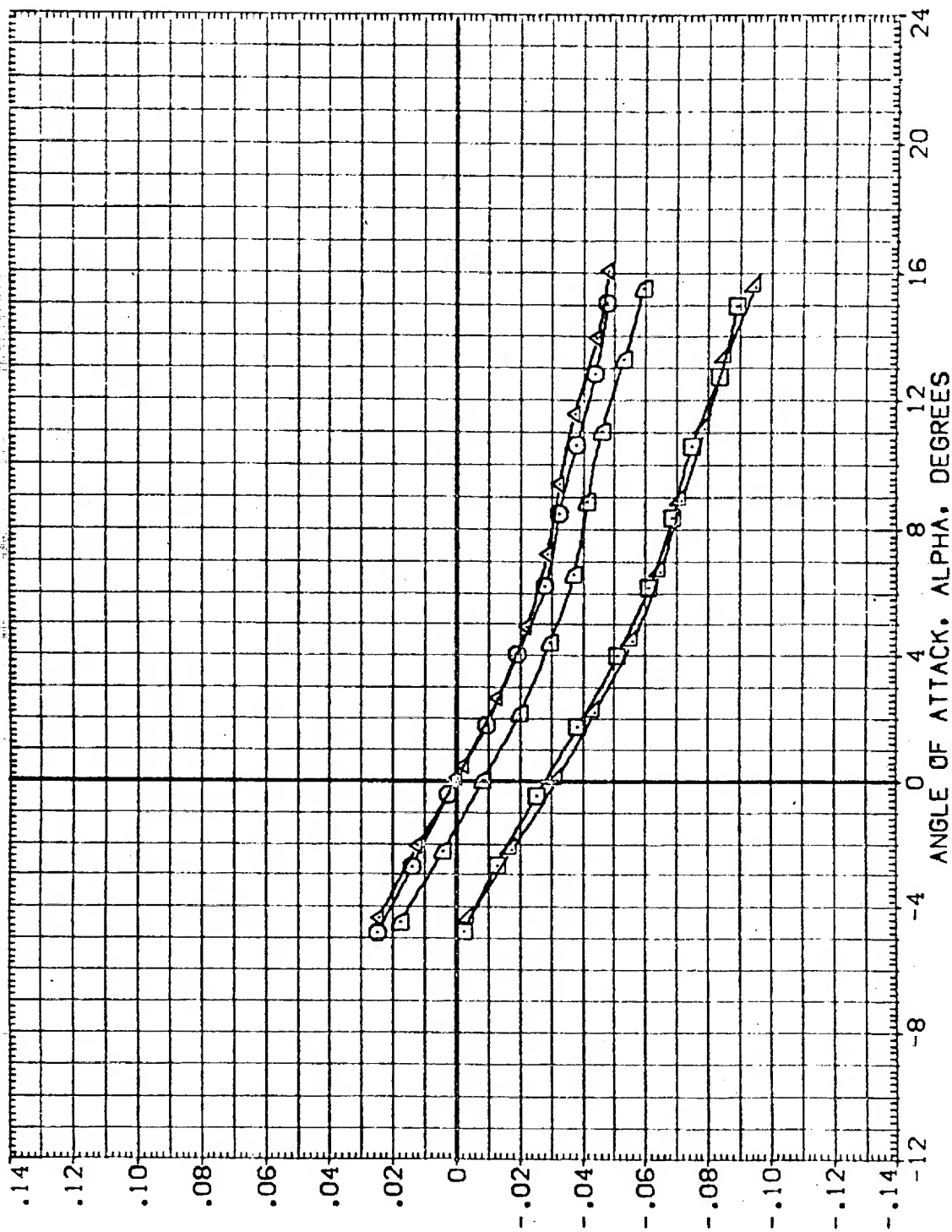


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[CER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
[CER005]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
[CER006]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
[CER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[CER014]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[CER015]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

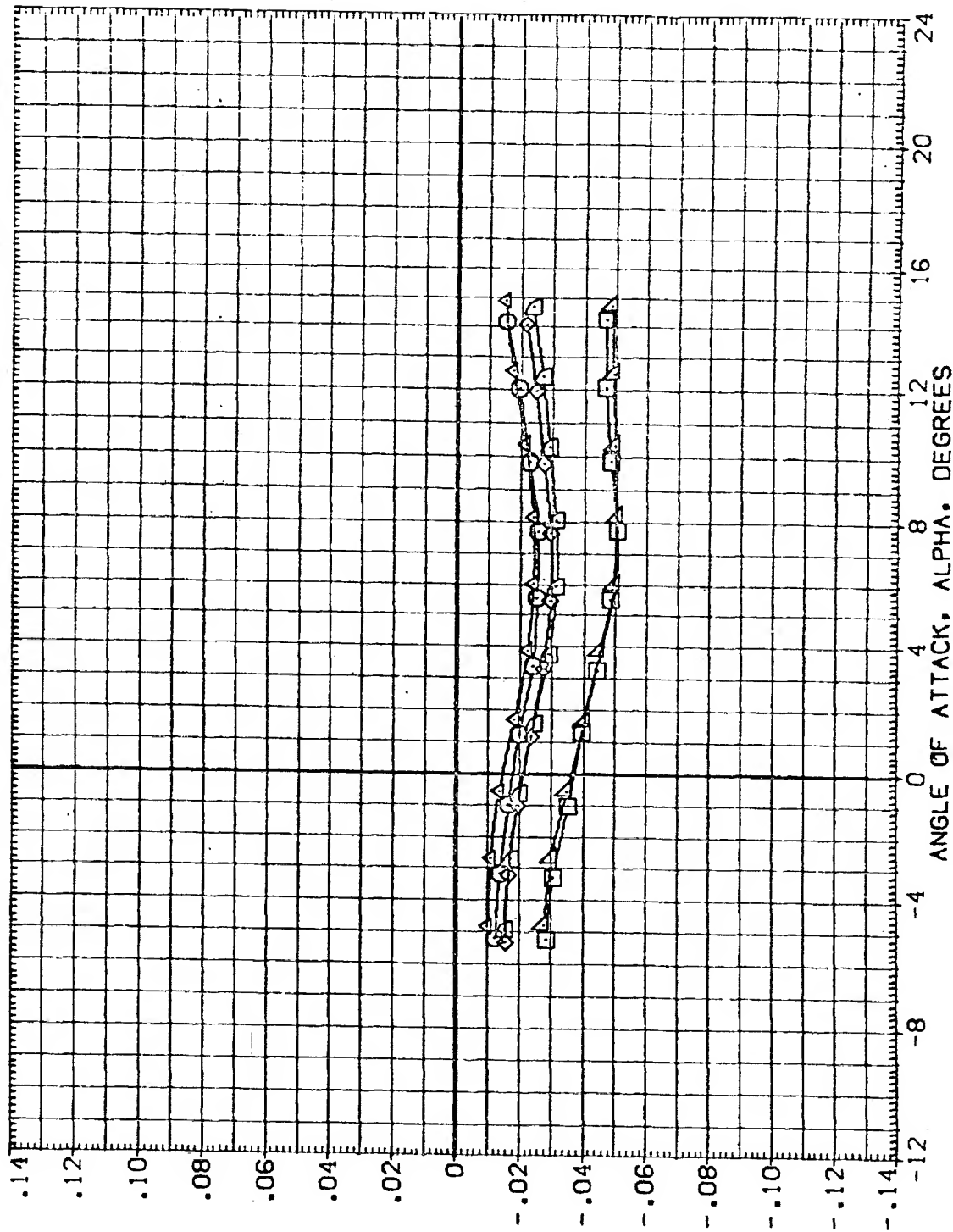


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

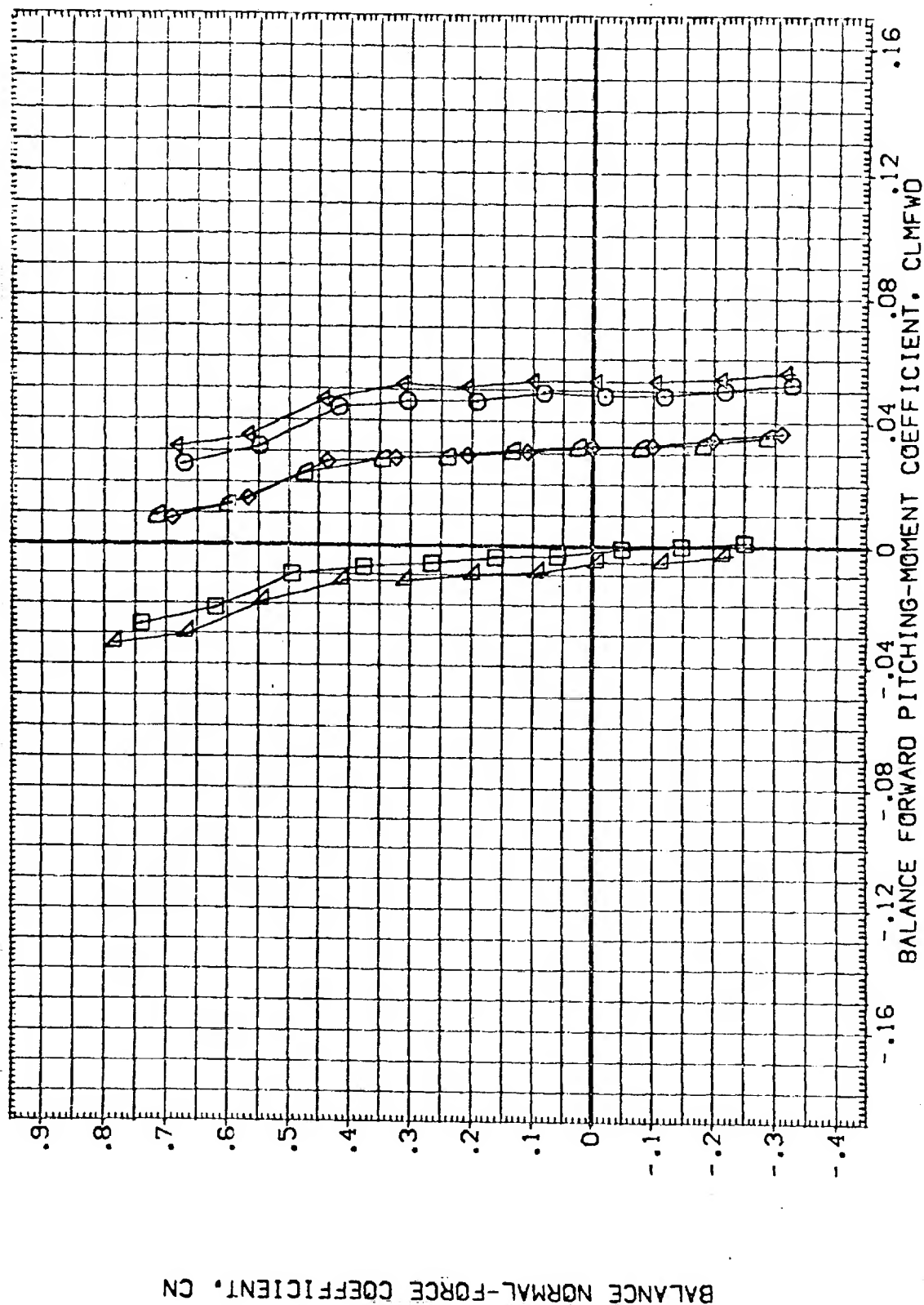


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[CER001]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
[CER005]	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
[CER006]	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
[CER012]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
[CER014]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[CER015]	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

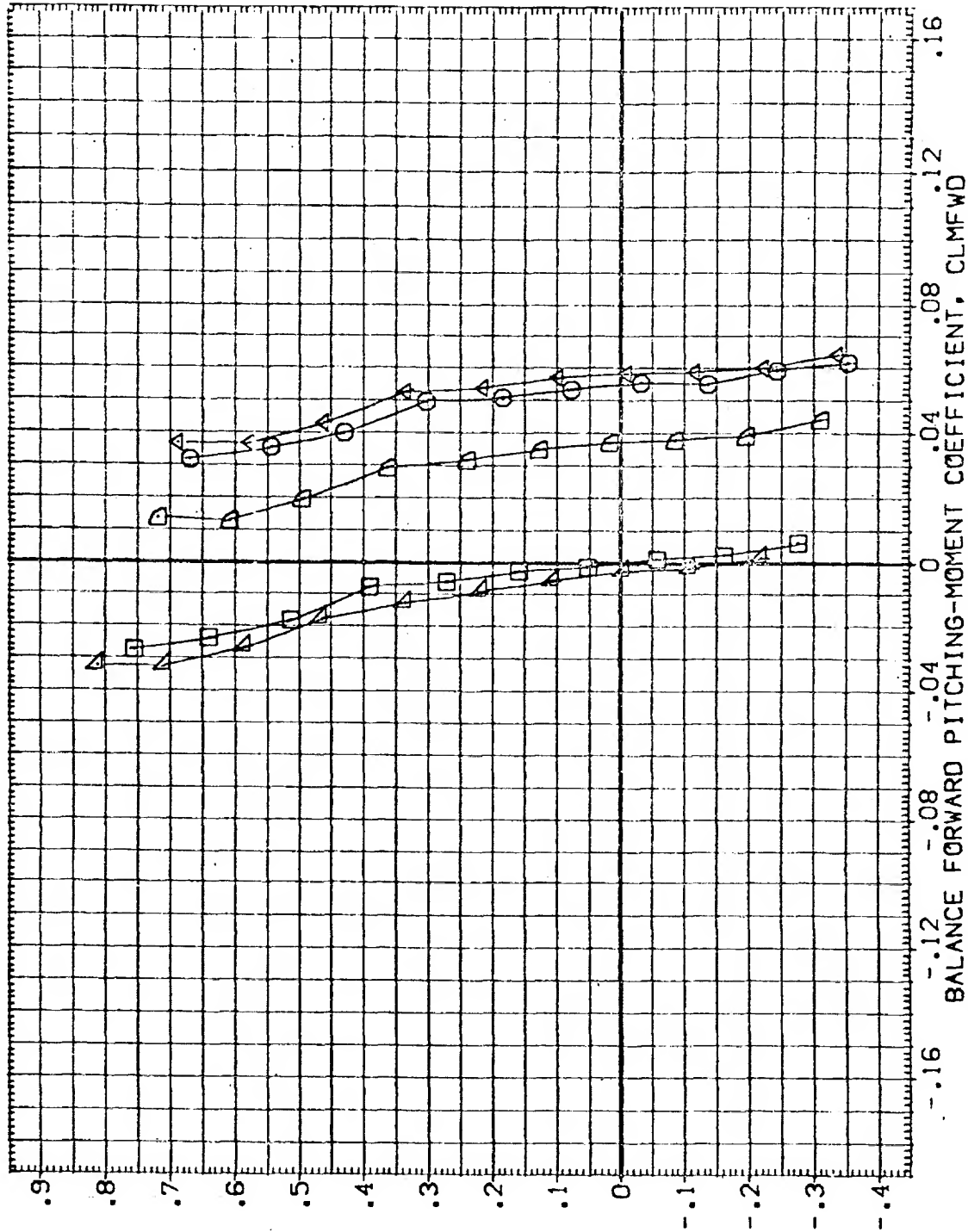


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(CER001) ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 .000 -11.700 SREF .6053 SQ.FT.

(CER005) DATA NOT AVAILABLE .000 .000 16.300 LREF .5935 FT.

(CER006) DATA NOT AVAILABLE .000 .000 -11.700 BREF 1.1710 FT.

(CER012) ARC 66-709 OAS9 0A11A-(RS V81)+STRUT .000 .000 16.300 XMRP 12.6755 IN.

(CER014) DATA NOT AVAILABLE .000 .000 .000 YMRP -0.000 IN.

(CER015) DATA NOT AVAILABLE .000 .000 .000 ZMRP -.3750 IN.

SCALE .0150

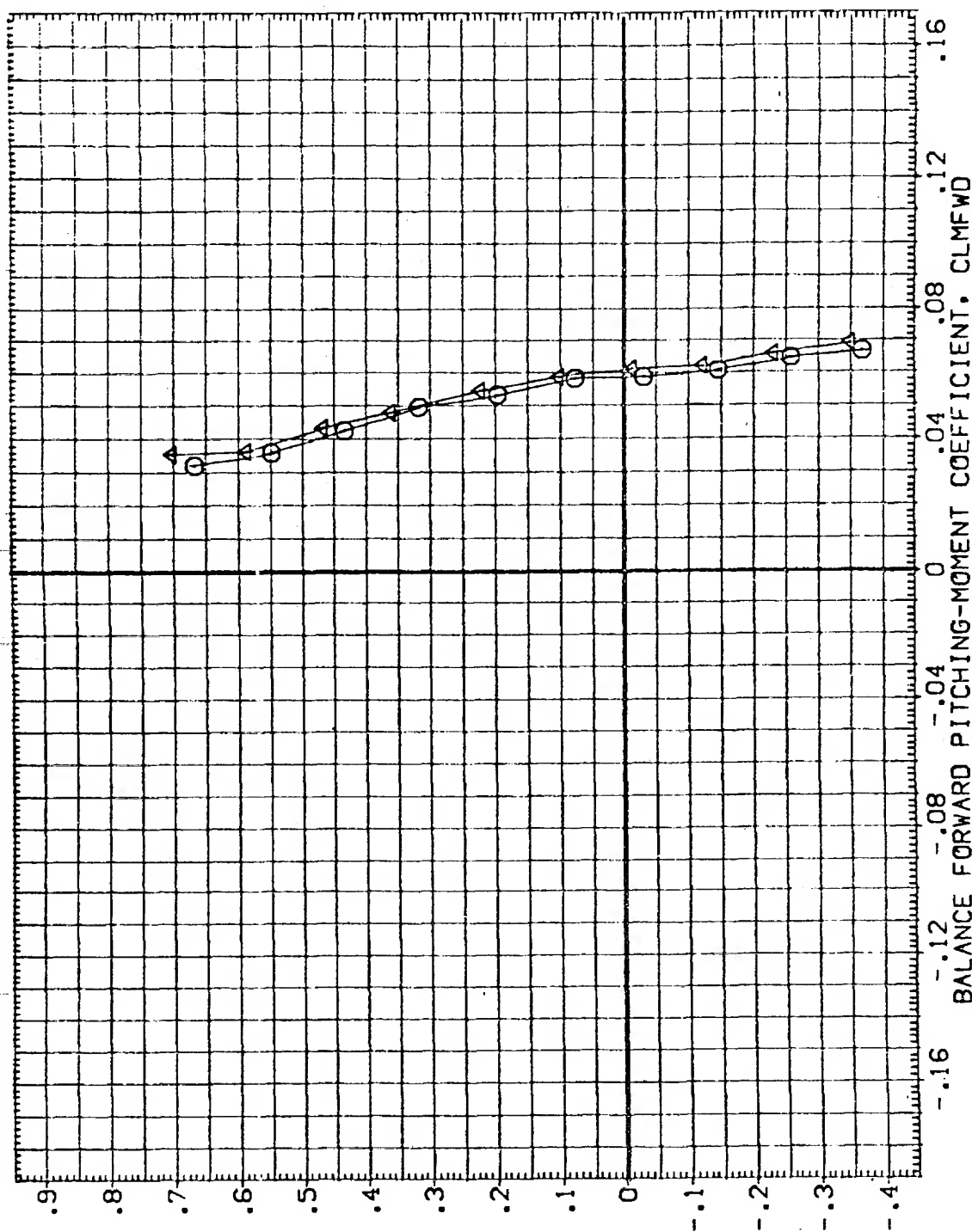


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(CER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING SREF .6053 SQ.FT.

(CER005) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING LREF .5935 FT.

(CER006) DATA NOT AVAILABLE BREF 1.1710 FT.

(CER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT XMRP 12.6255 IN.

(CER014) ARC 66-709 0A59 0A11A-(RS V81)+STRUT YMRP .0000 IN.

(CER015) ARC 66-709 0A59 0A11A-(RS V81)+STRUT ZMRP -.3750 IN.

SCALE .0150

BETA ELEVON BOFLAP

.000 .000 -11.700

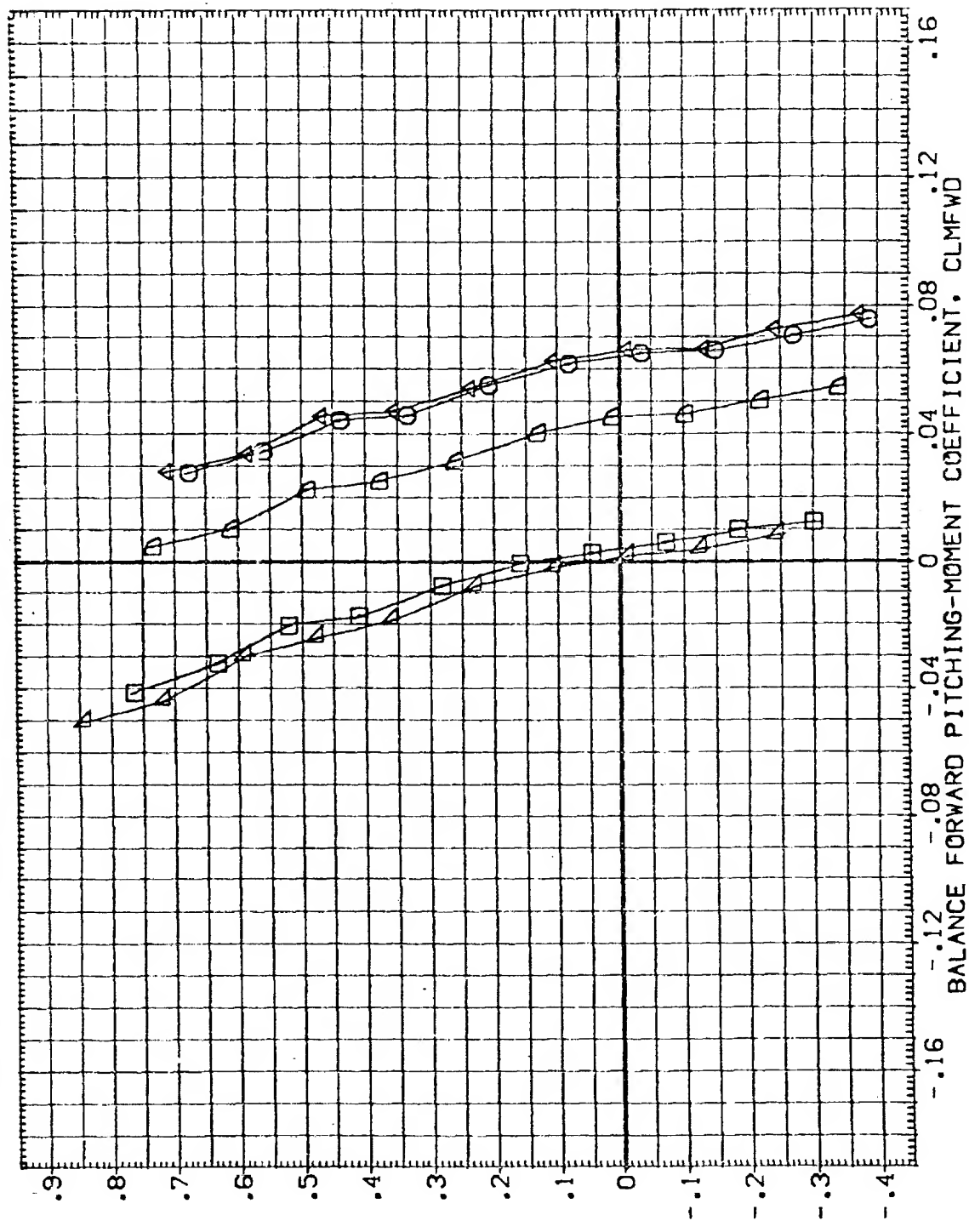
.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000



BALANCE NORMAL-FORCE COEFFICIENT, CN

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	SREF .6053 50.FT.
(CER005)	DATA NOT AVAILABLE	LREF .5335 FT.
(CER006)	DATA NOT AVAILABLE	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	ZMRP -.3750 IN.
		SCALE .0150

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	16.300
.000	.000	.000
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

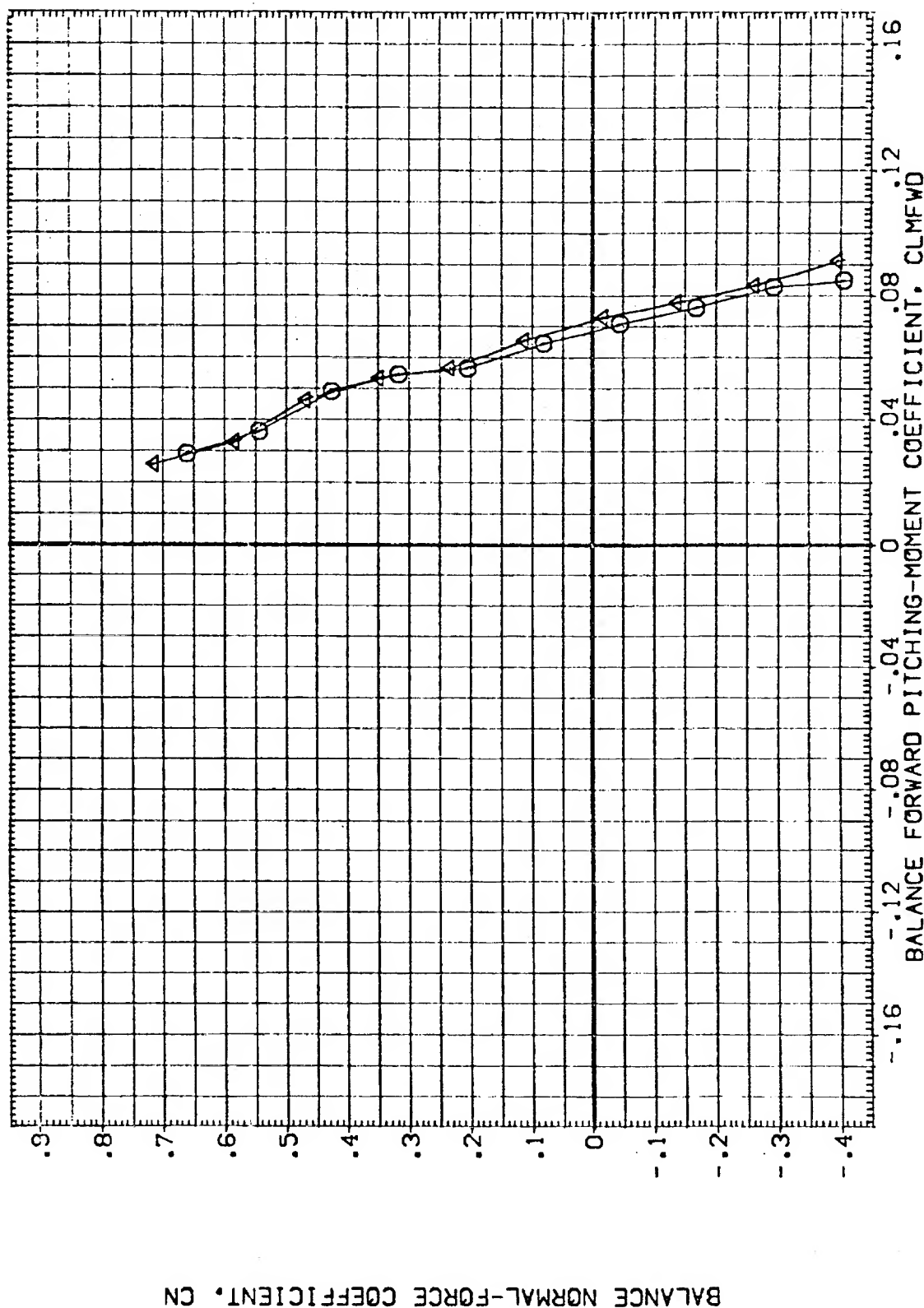


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

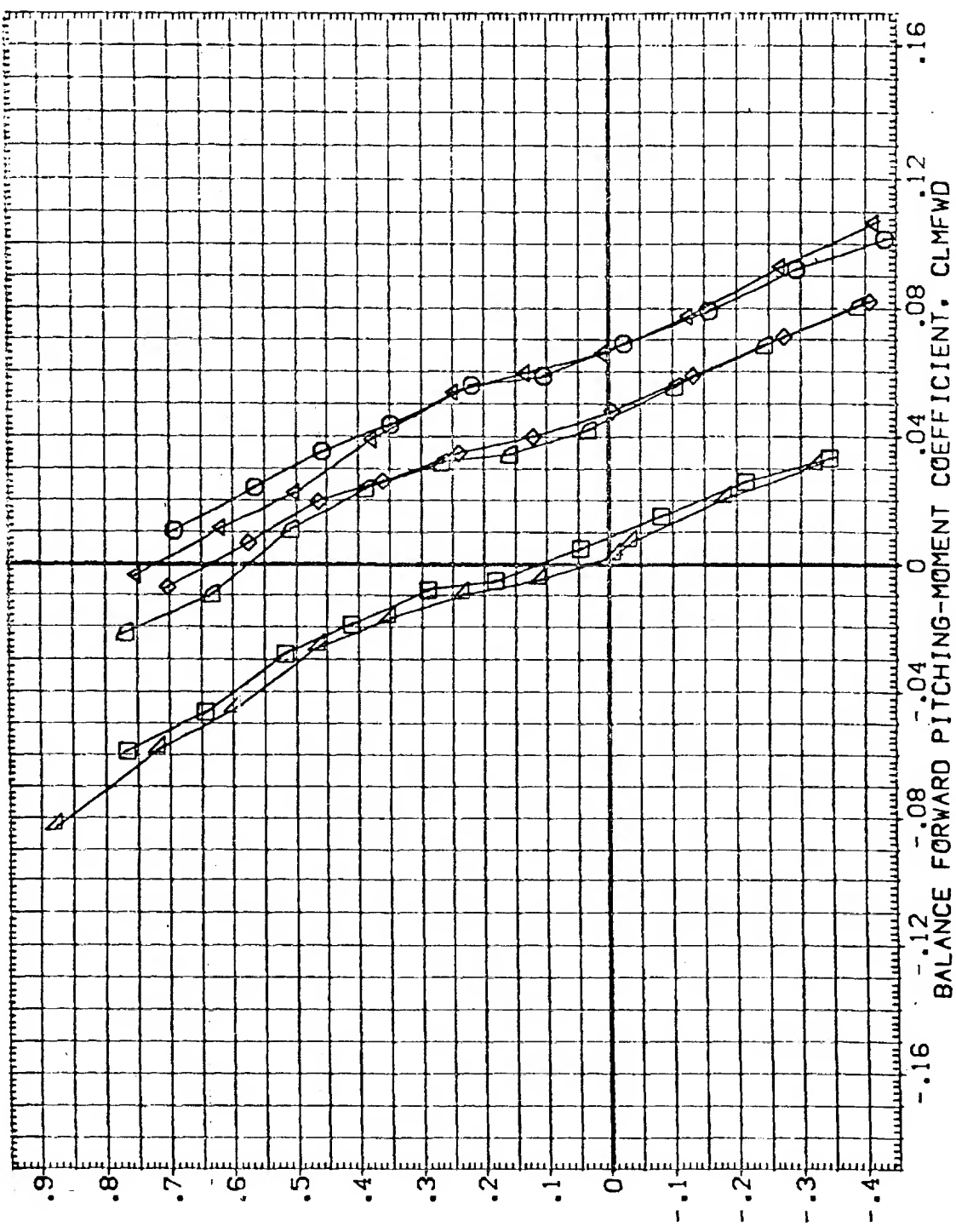


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 0A111A-(N24 R5 V81)+STRUT+OUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 DAS9 0A111A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

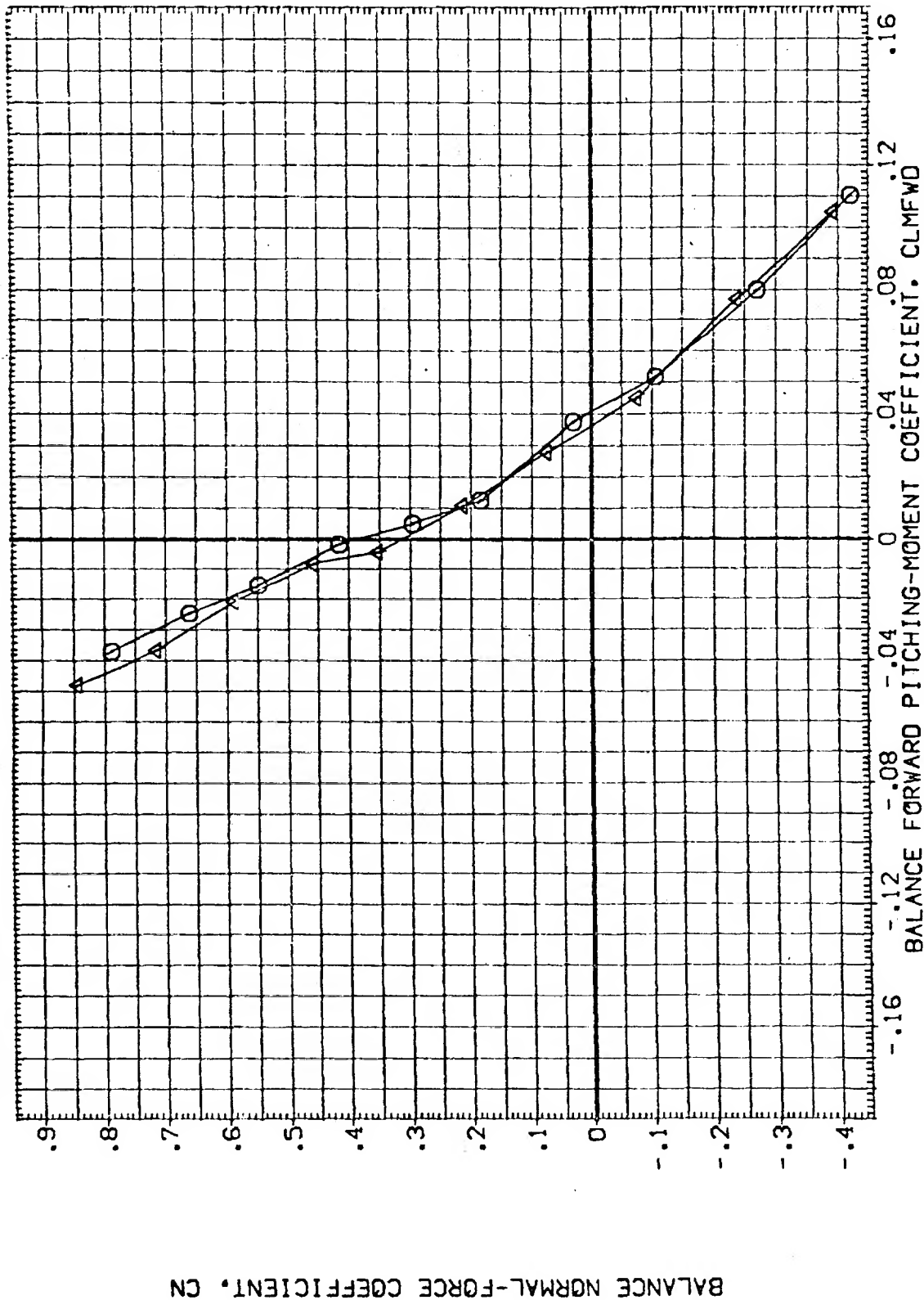


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	16.300
.000	.000	.000
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

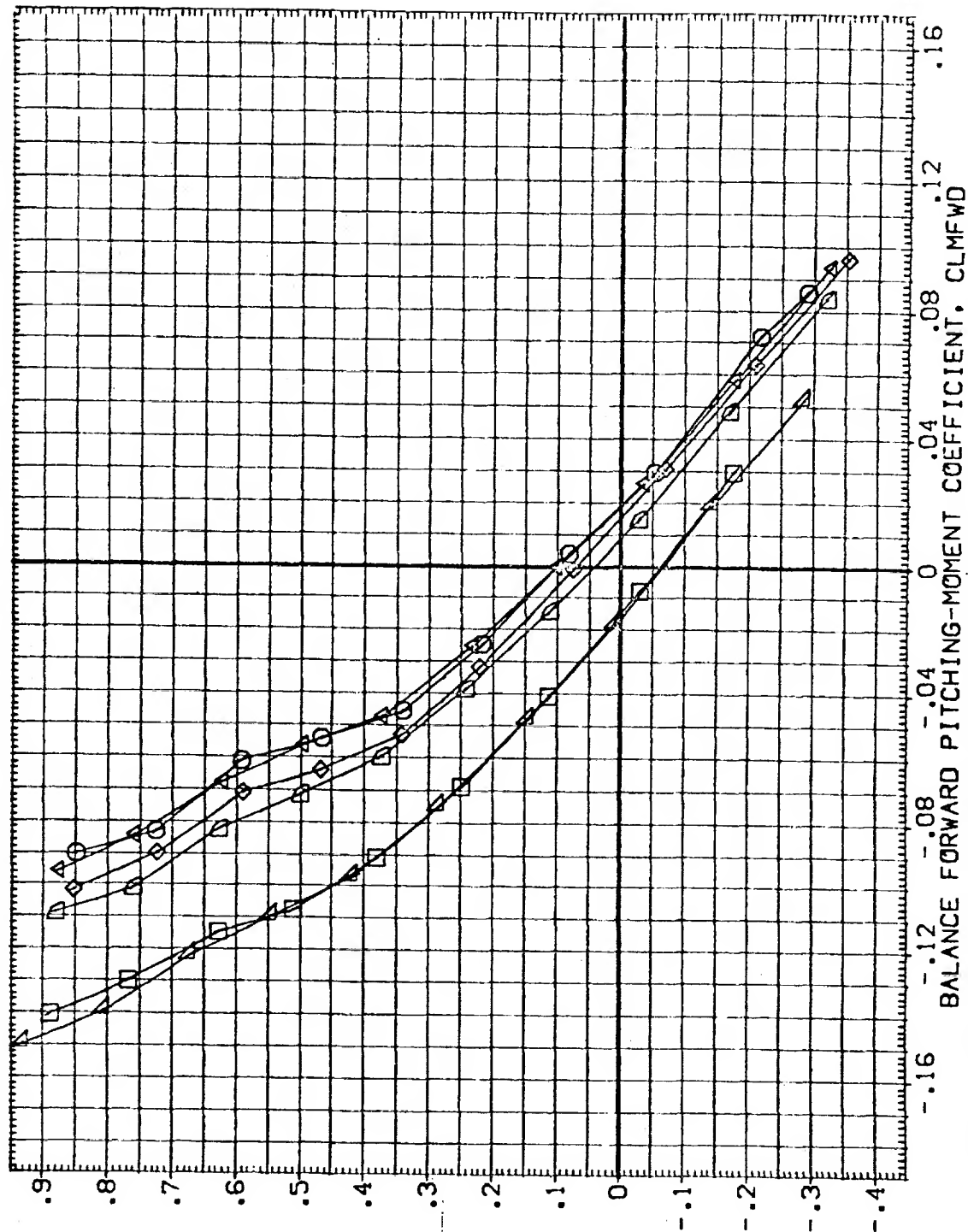


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL

(CER001)
(CER005)
(CER006)
(CER012)
(CER014)
(CER015)

CONFIGURATION DESCRIPTION

ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STNG
ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STNG
DATA NOT AVAILABLE
ARC 66-709 D459 D411A-(RS V8)+STRUT
ARC 66-709 D459 D411A-(RS V8)+STRUT
ARC 66-709 D459 D411A-(RS V8)+STRUT

BETA

.000
.000
.000
.000
.000
.000

ELEVON

.000
.000
.000
.000
.000
.000

BOFLAP

-11.700
16.300
.000
-11.700
16.300
.000

REFERENCE INFORMATION

SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6755 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

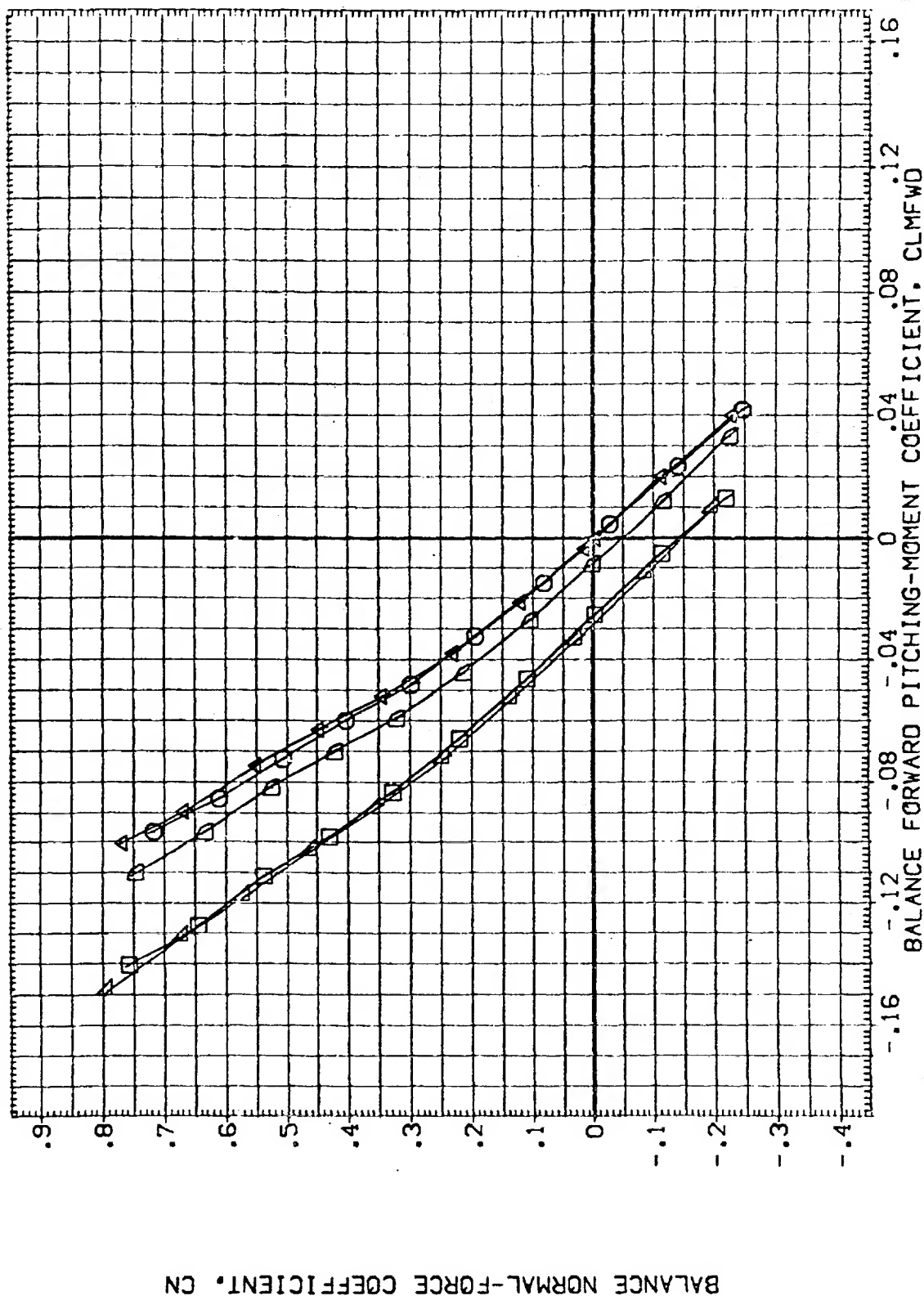


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50. FT
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

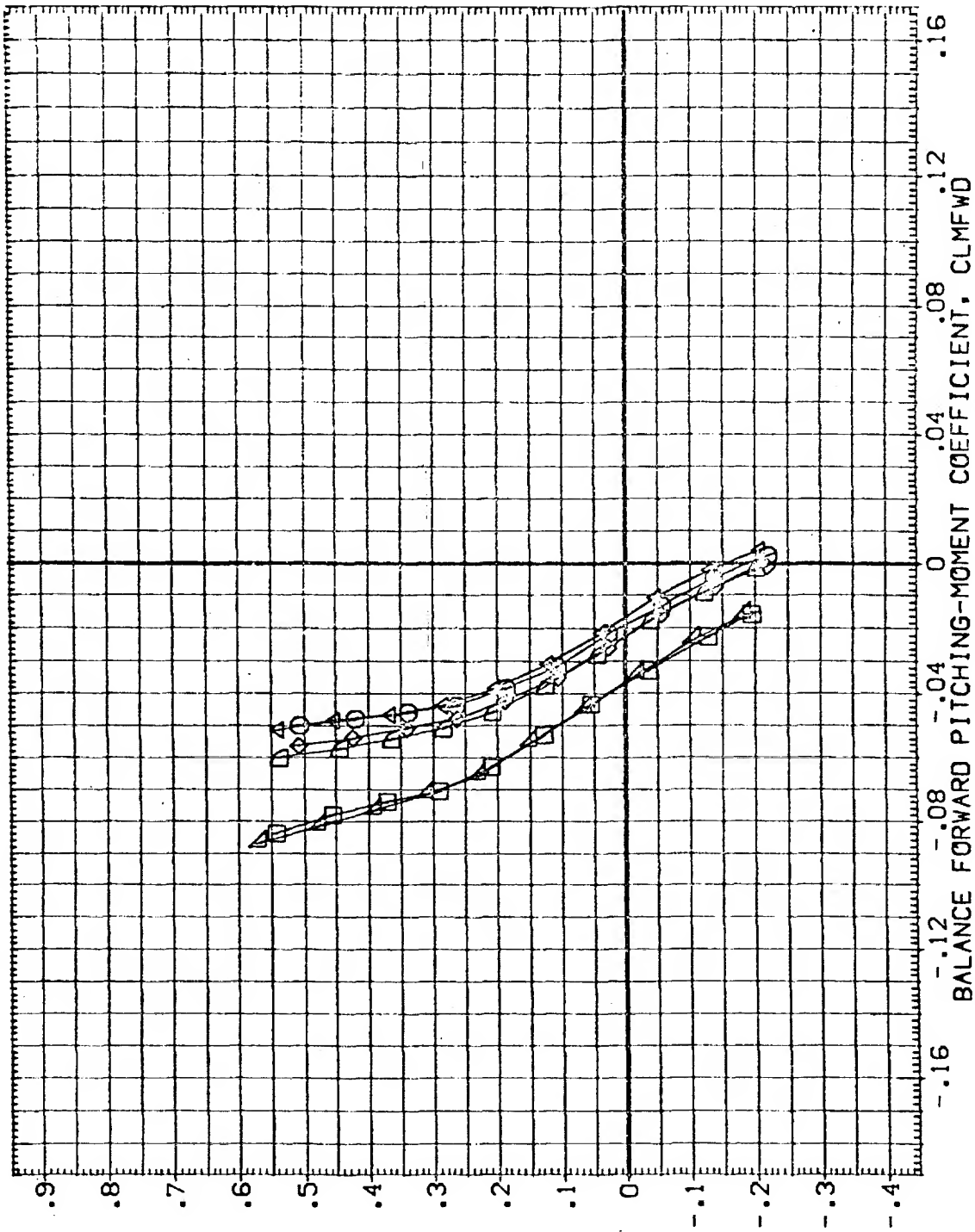


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{CER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	BREF 1.1710 IN.
{CER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{CER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

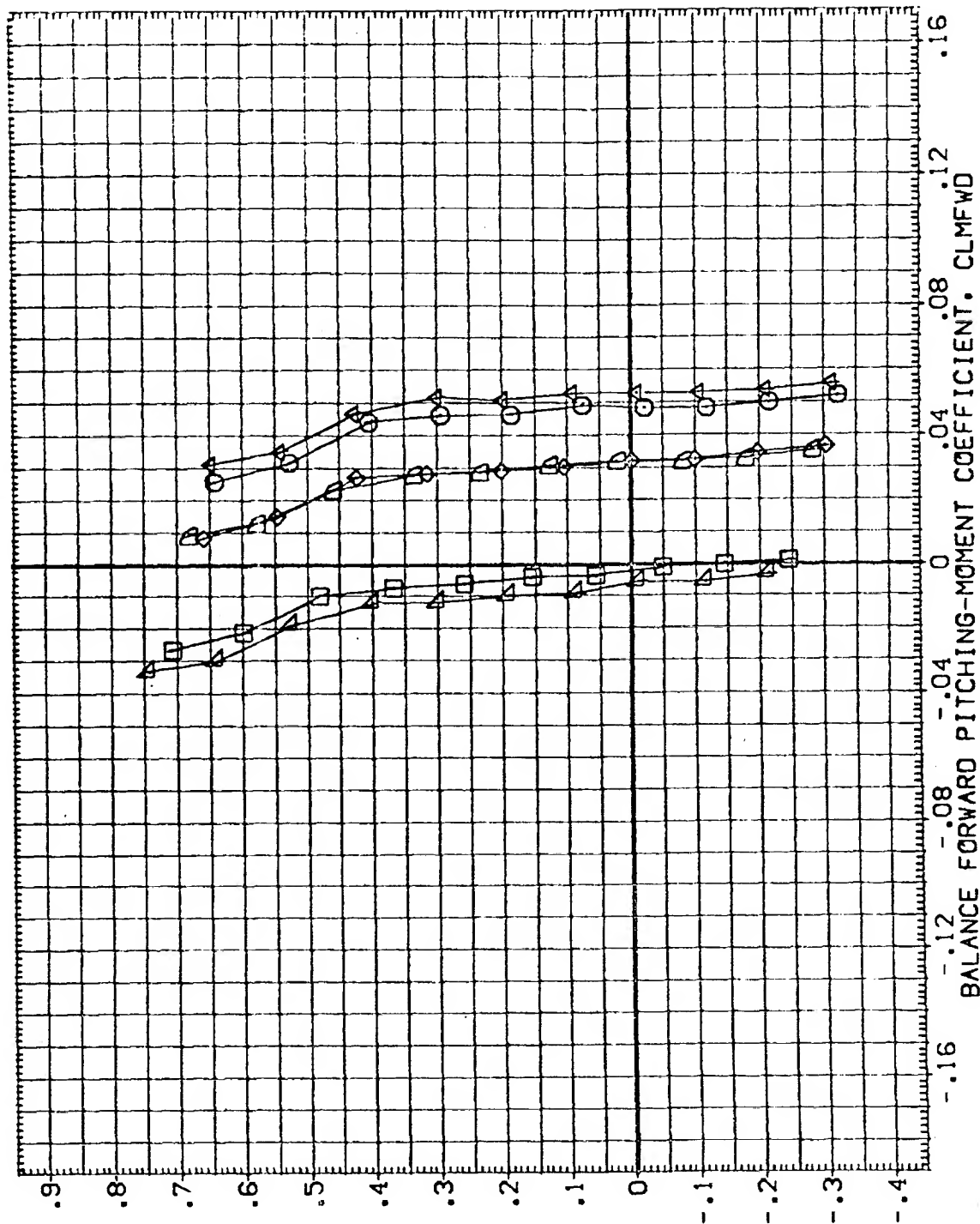


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

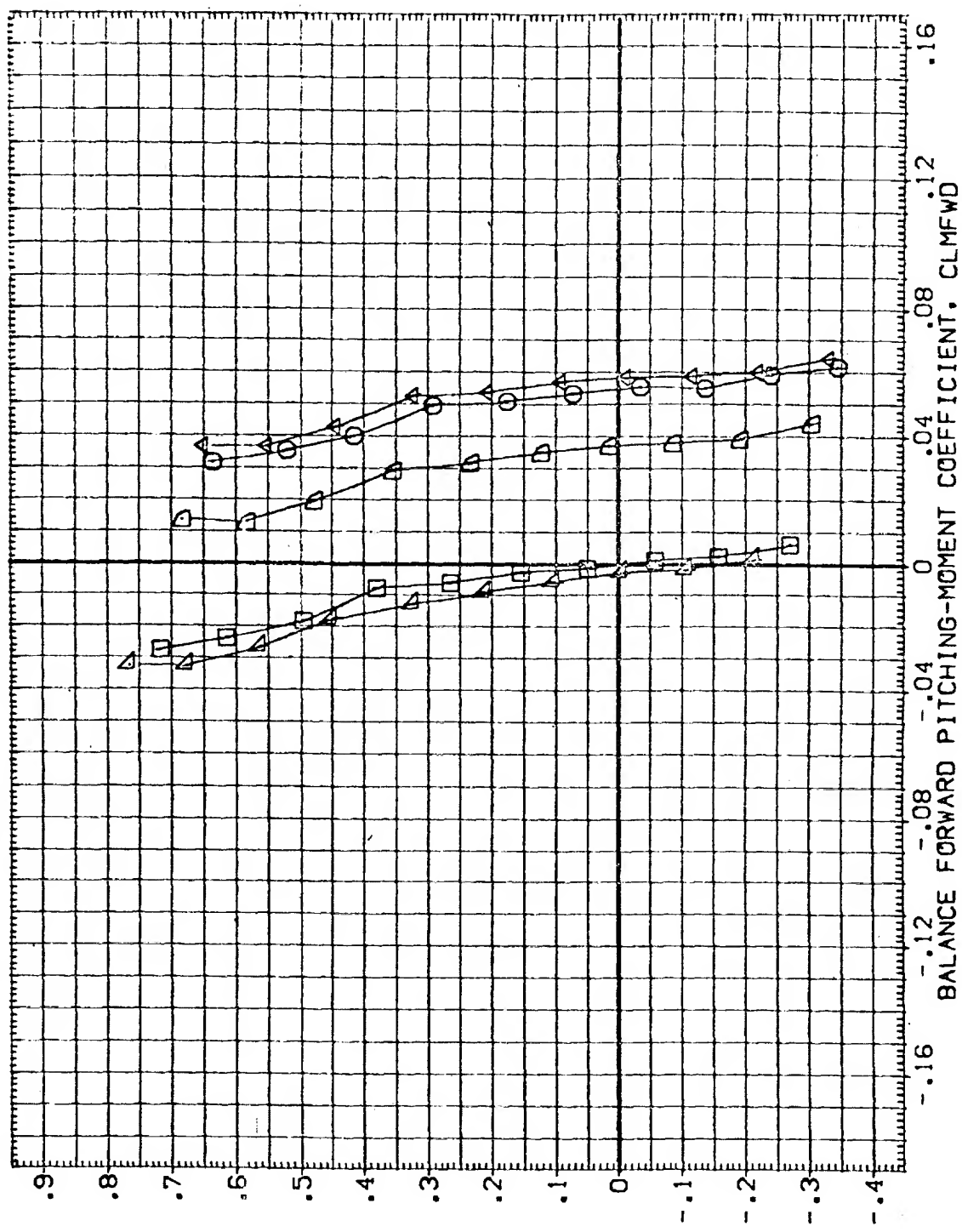


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL
 (CER001)
 (CER005)
 (CER006)
 (CER012)
 (CER014)
 (CER015)

CONFIGURATION DESCRIPTION
 ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT+DUM STING
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 ARC 66-709 OAS9 DA11A-(RS V8)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA
 .000
 .000
 .000
 .000
 .000
 .000

ELEVON
 .000
 .000
 .000
 .000
 .000
 .000

BOFLAP
 -11.700
 16.300
 16.300
 -11.700
 16.300
 16.300

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

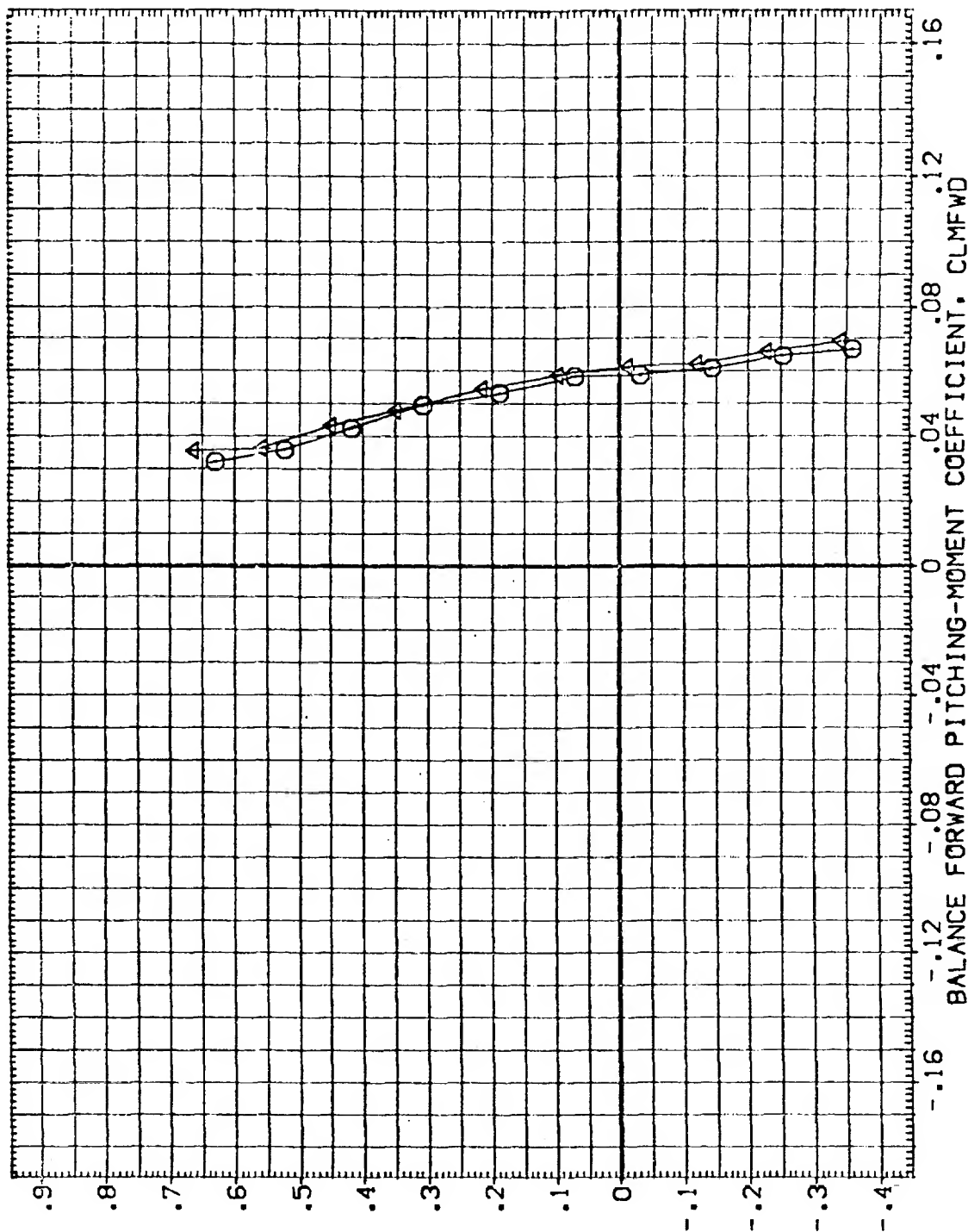


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER003)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

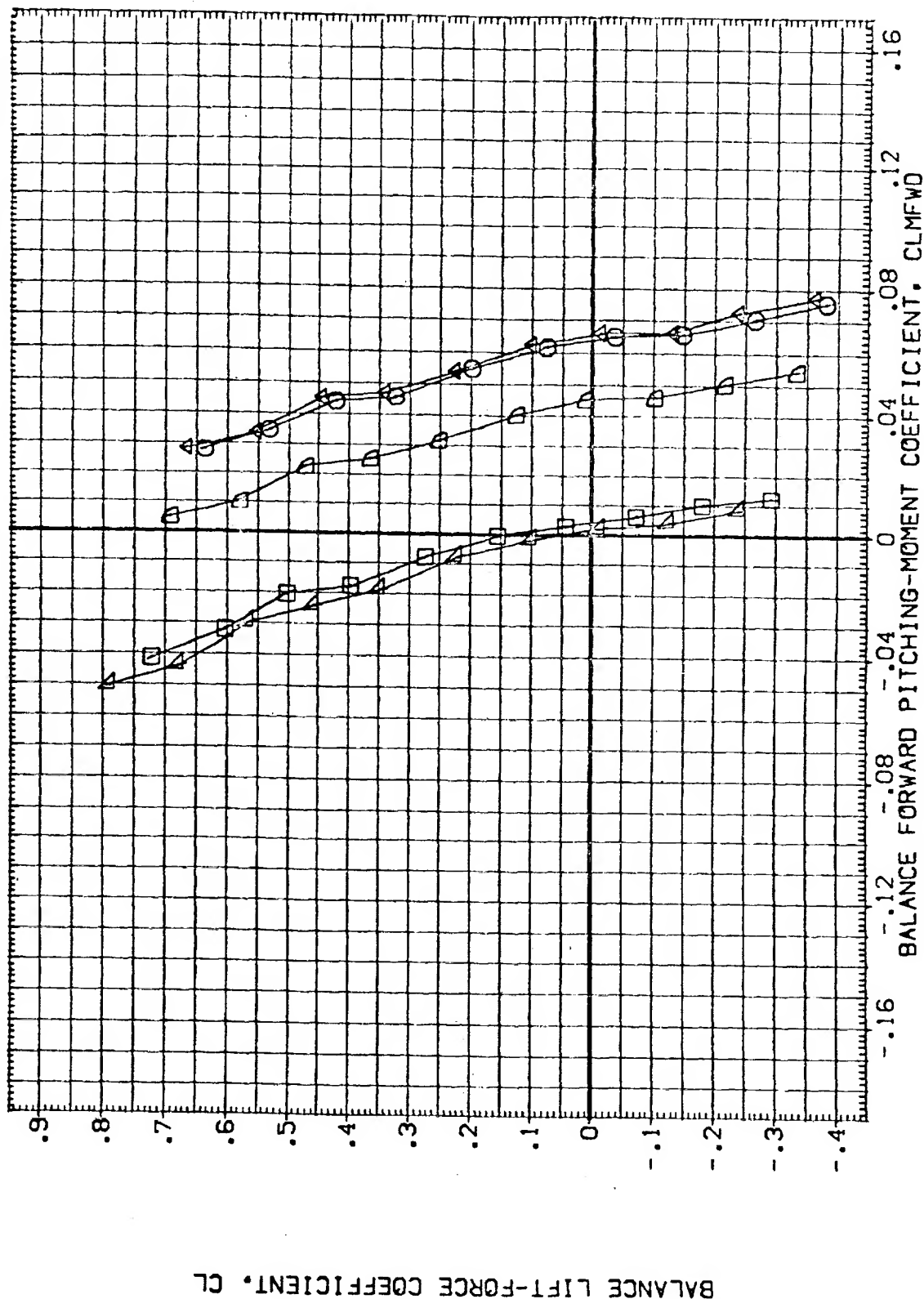
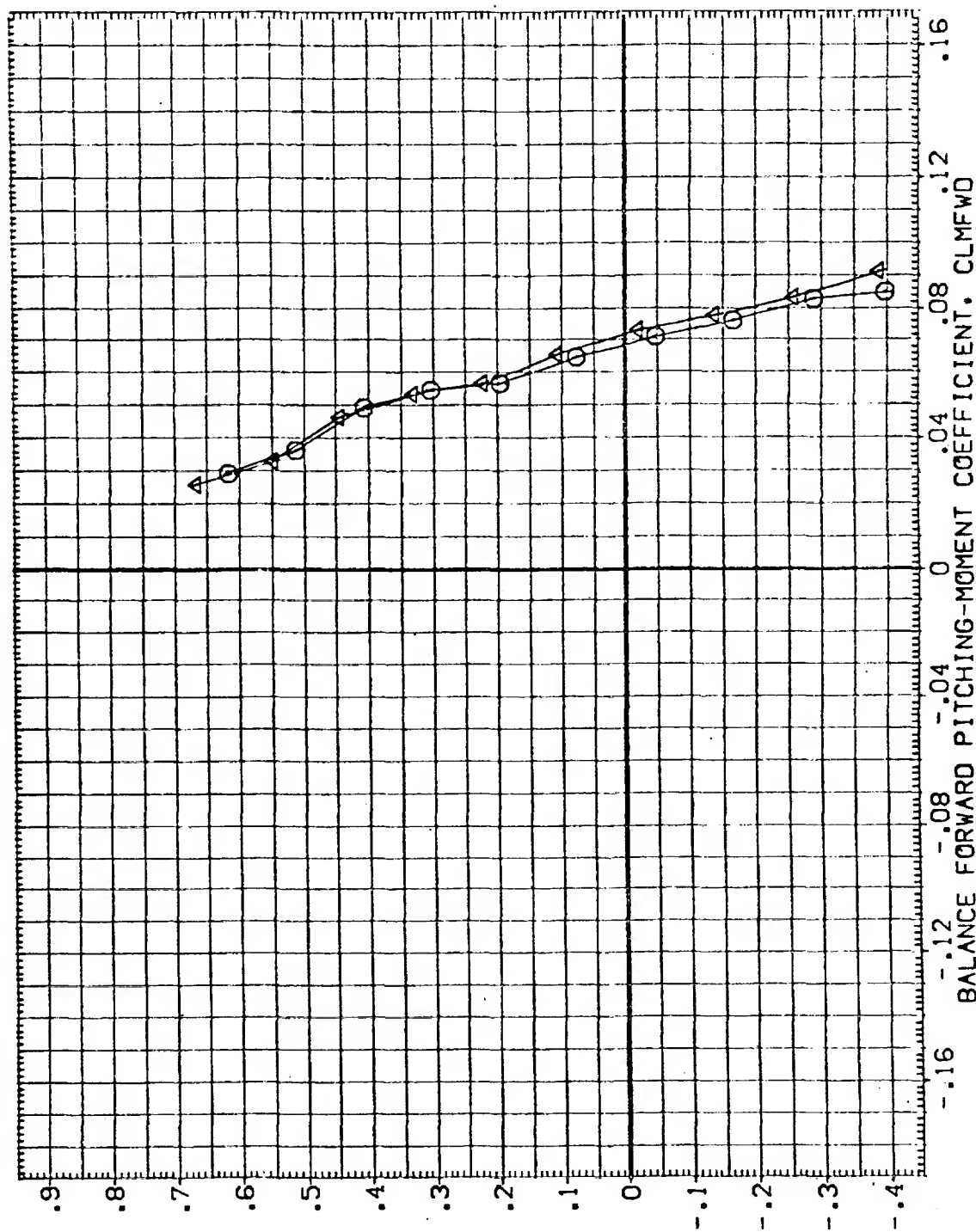


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(DJM)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{CER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{CER005}	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
{CER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{CER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{CER014}	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
{CER015}	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



Balance Lift-Force Coefficient, CL

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50. FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

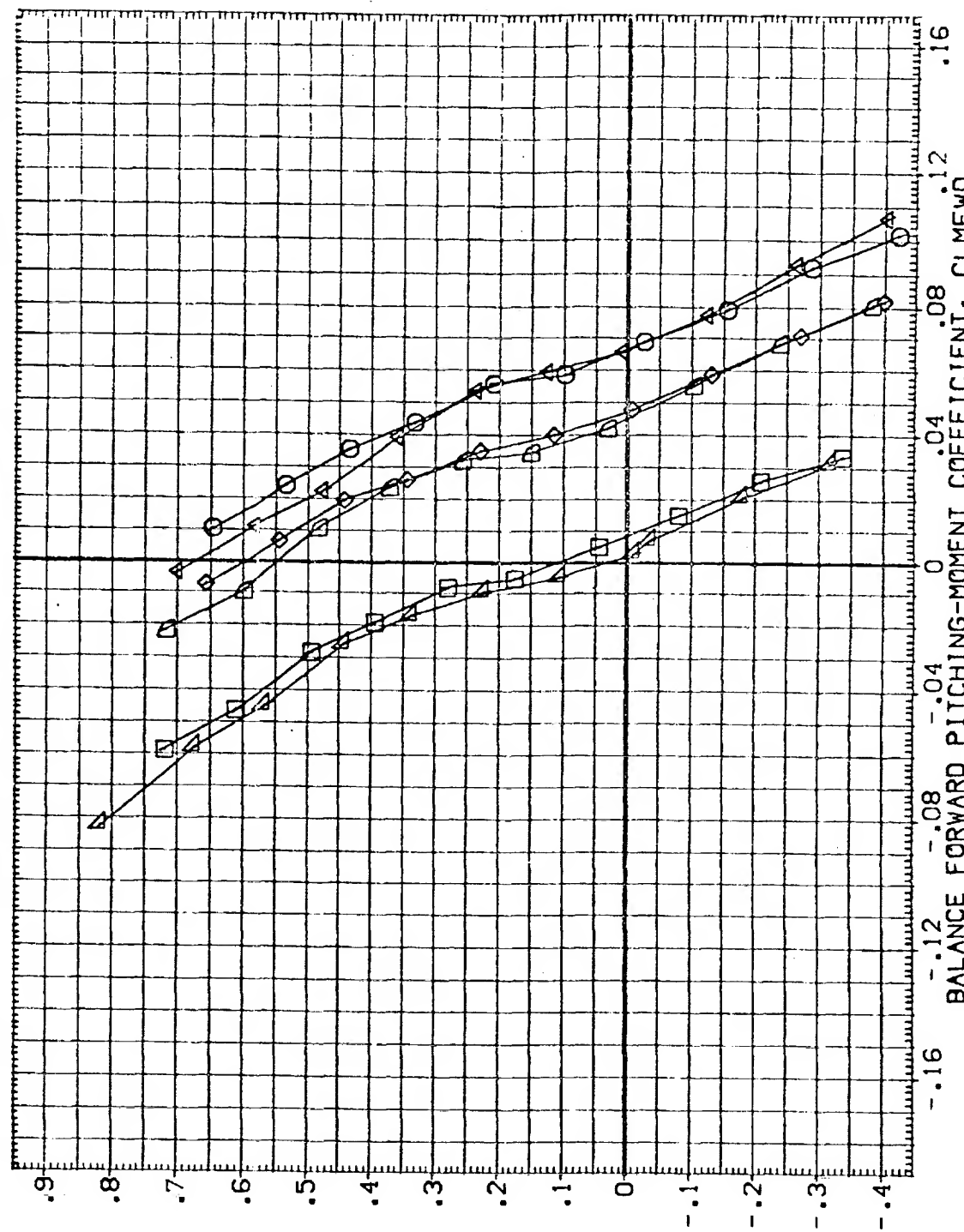


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0459 0411A-(N24 RS V81)+STRUT+DUH STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0459 0411A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE -.3750 IN.

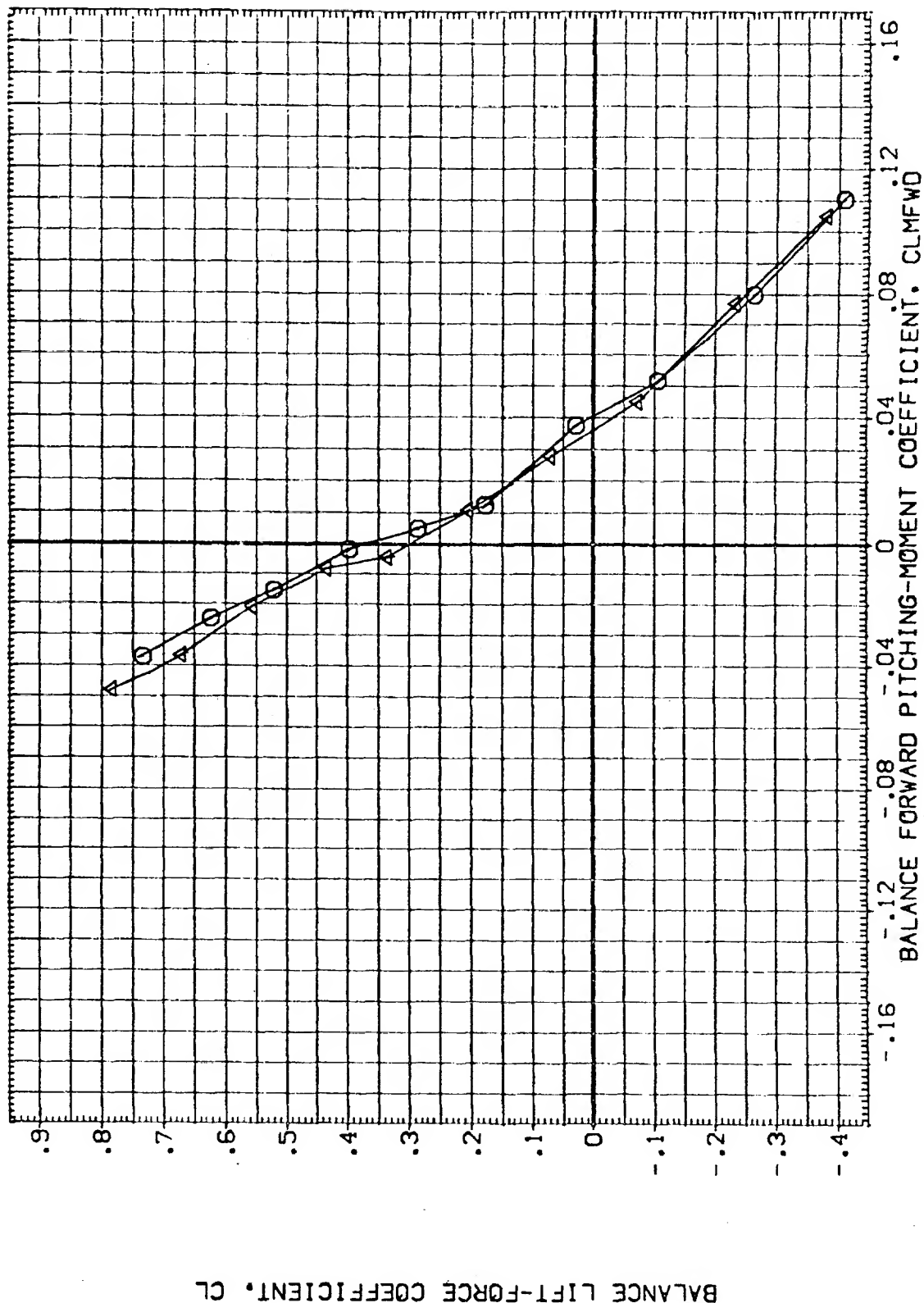


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	BETA	ELEVON	BOFLAP
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

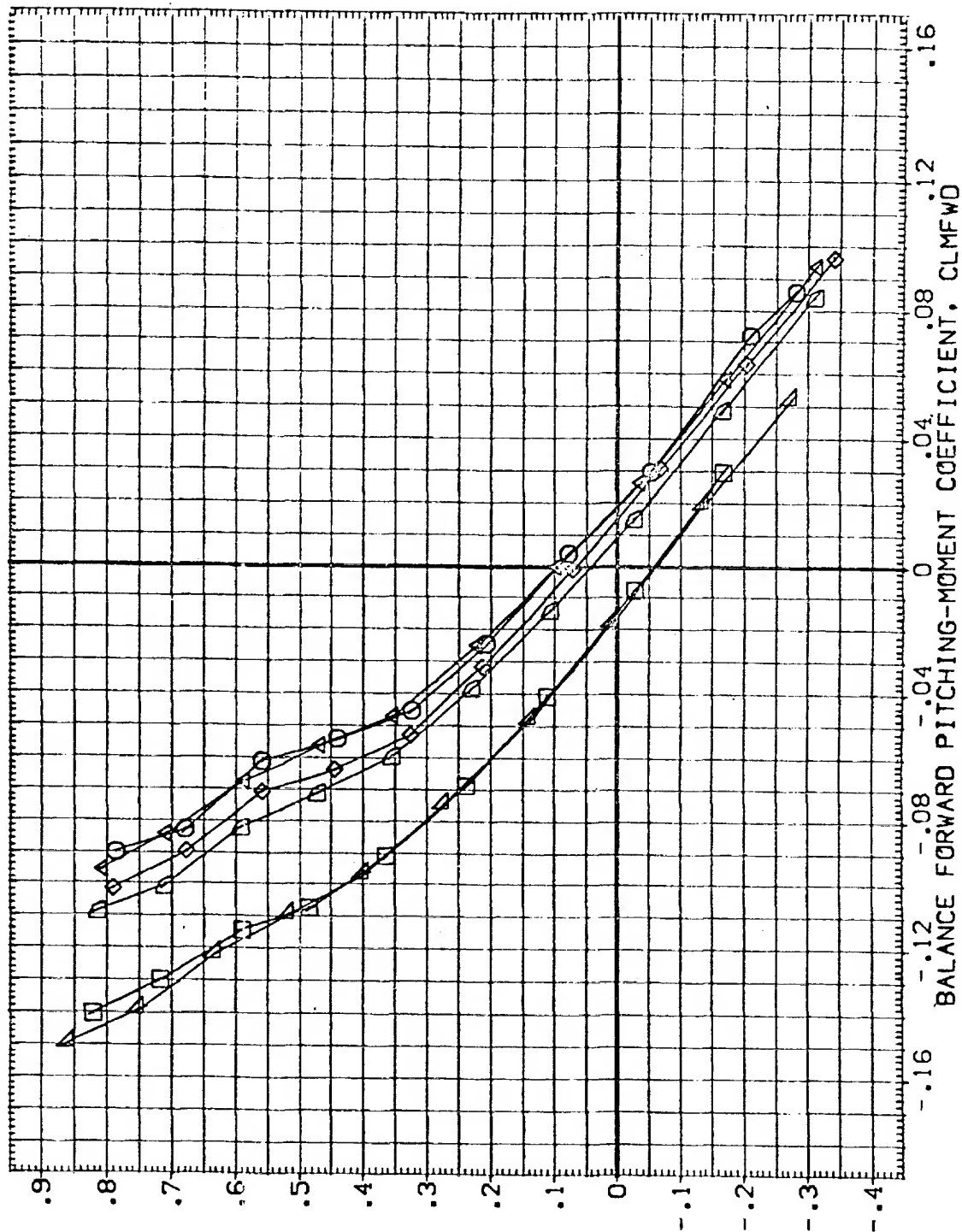


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

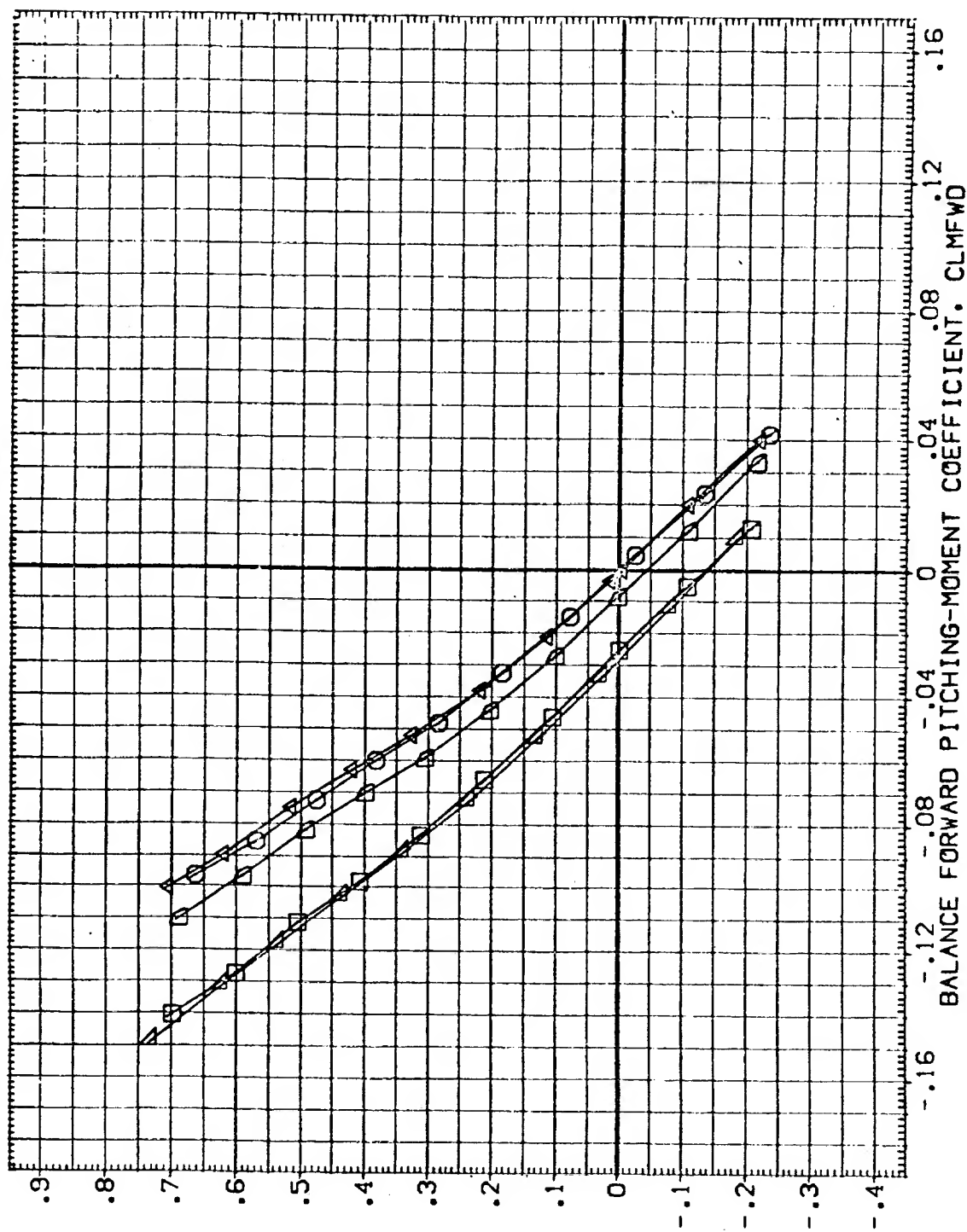


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

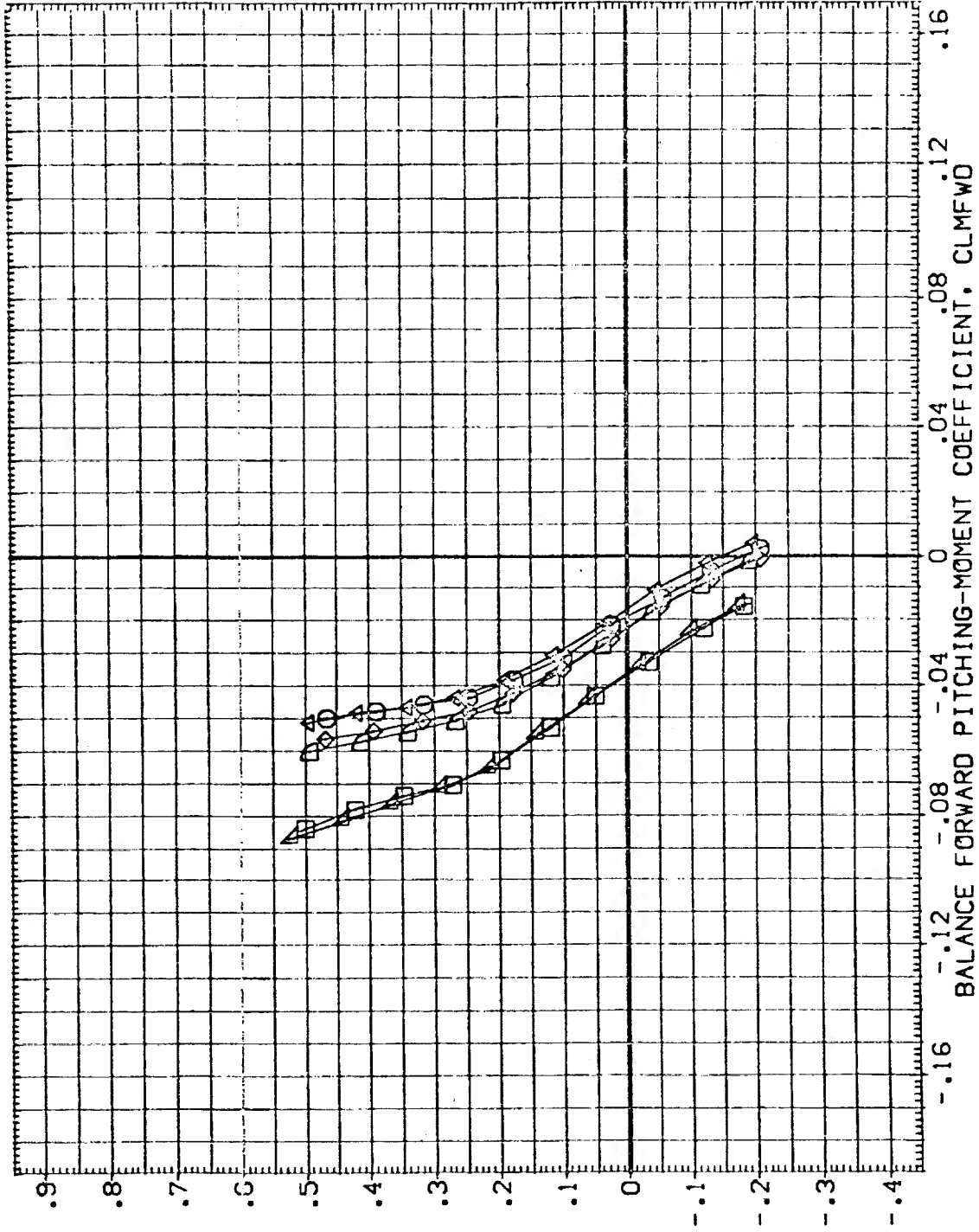


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	LREF .5935 FT.
(CER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

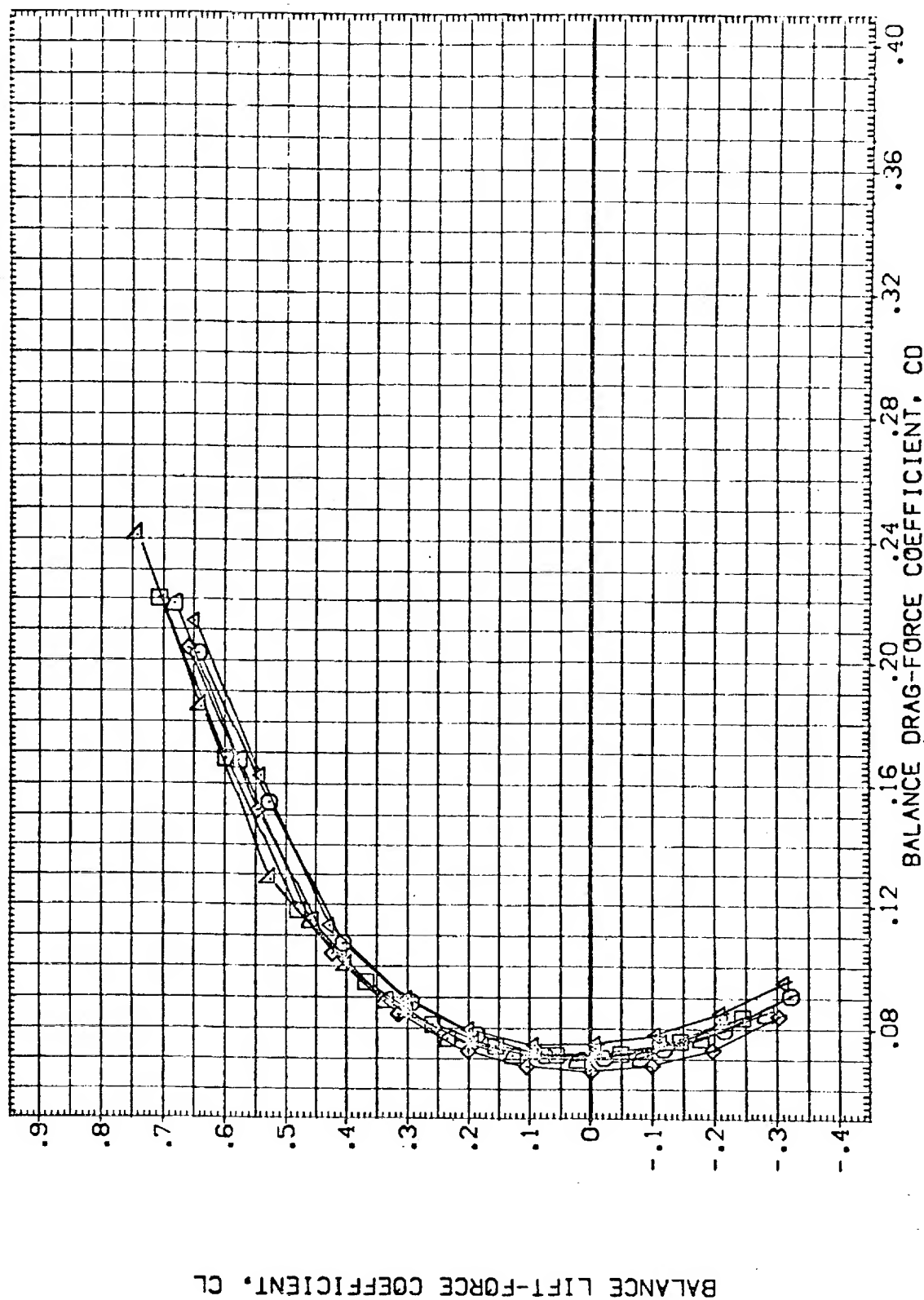


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING

ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STING

DATA NOT AVAILABLE

ARC 66-709 0A59 0A11A-(RS V81+STRUT

ARC 66-709 0A59 0A11A-(RS V81+STRUT

ARC 66-709 0A59 0A11A-(RS V81+STRUT

BETA

ELEVON

BOCLAP

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

6053 50.FT.

5935 FT.

1.1710 IN.

12.6755 IN.

.0000 IN.

-.3750 IN.

.0150

DATA SET SYMBOL

(CER001)

(CER005)

(CER006)

(CER012)

(CER014)

(CER015)

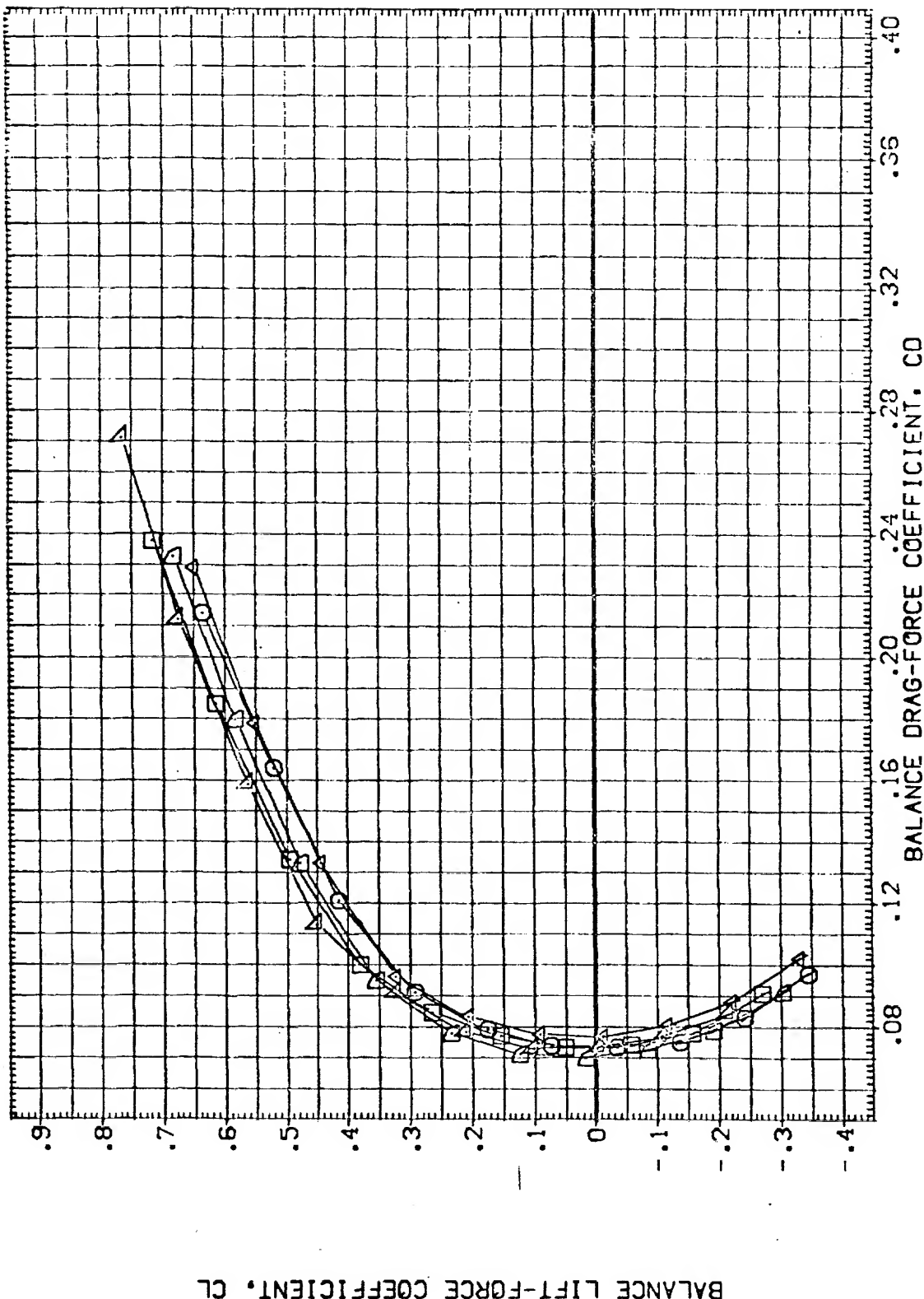


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

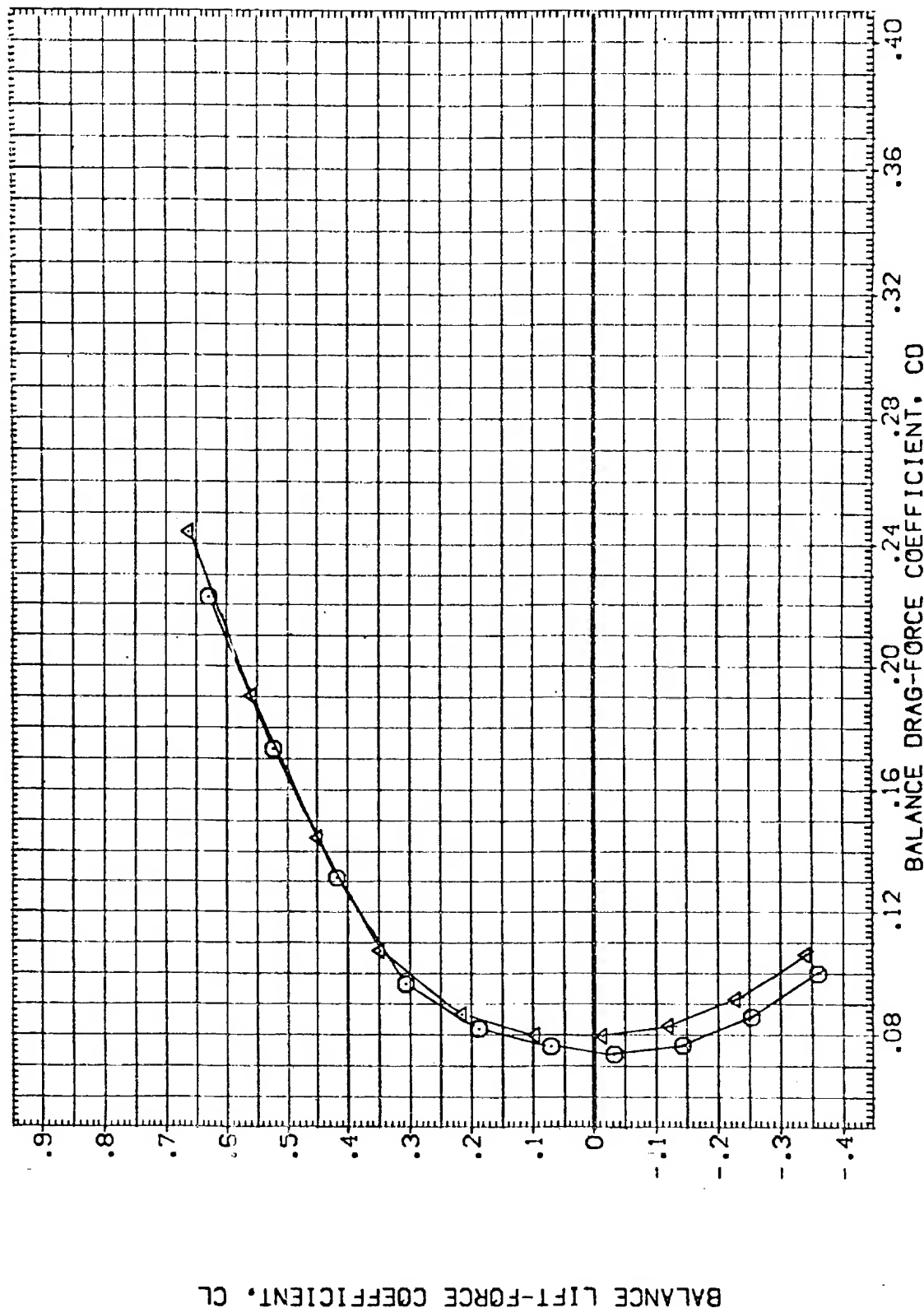


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	-11.700	XMRP 1.1710 IN.
(CER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
(CER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	SCALE .0150

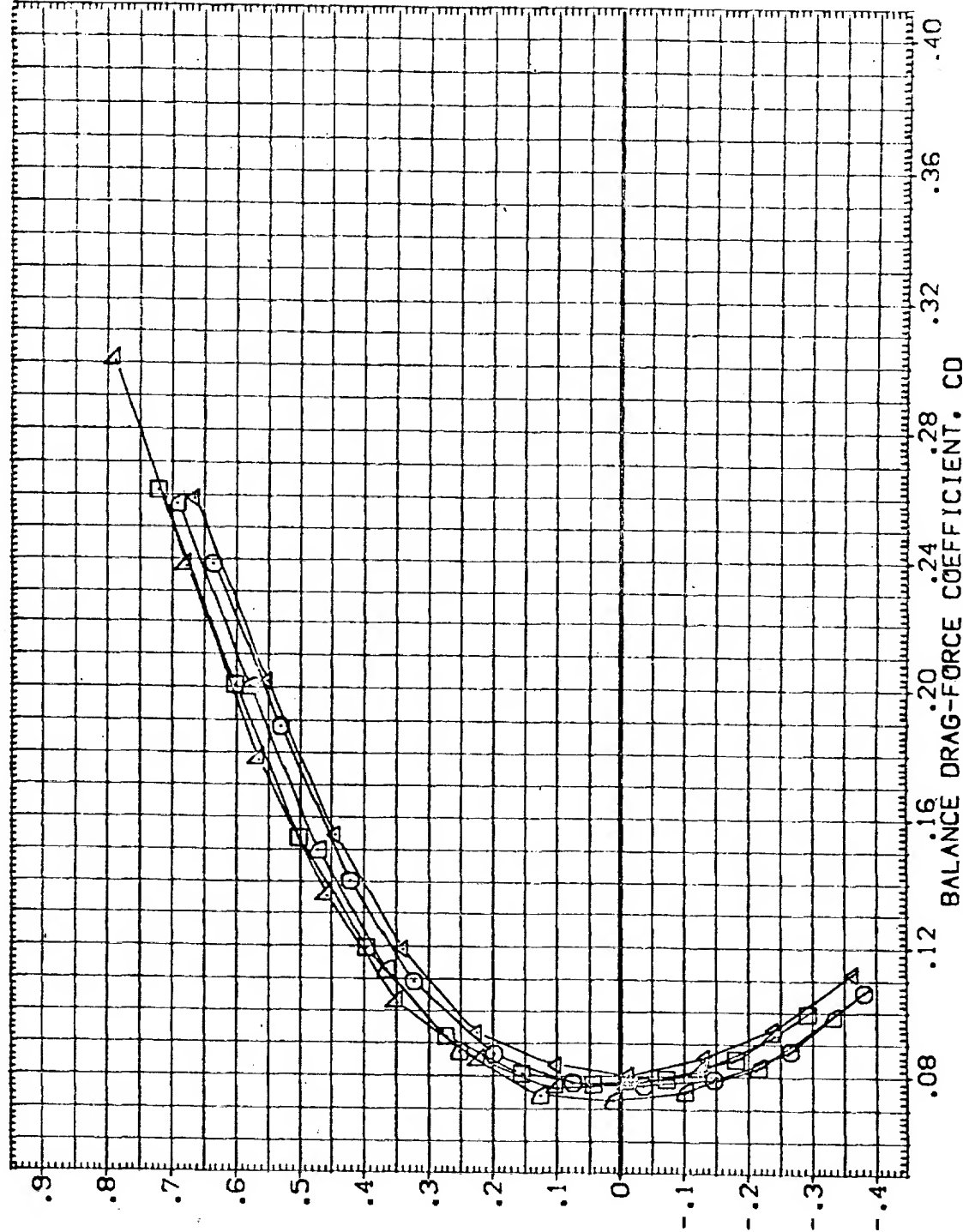


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT+DJM STNG
DATA NOT AVAILABLE
DATA NOT AVAILABLE
ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

DATA SET SYMBOL

(CER001)	
(CER005)	
(CER006)	
(CER012)	
(CER014)	
(CER015)	

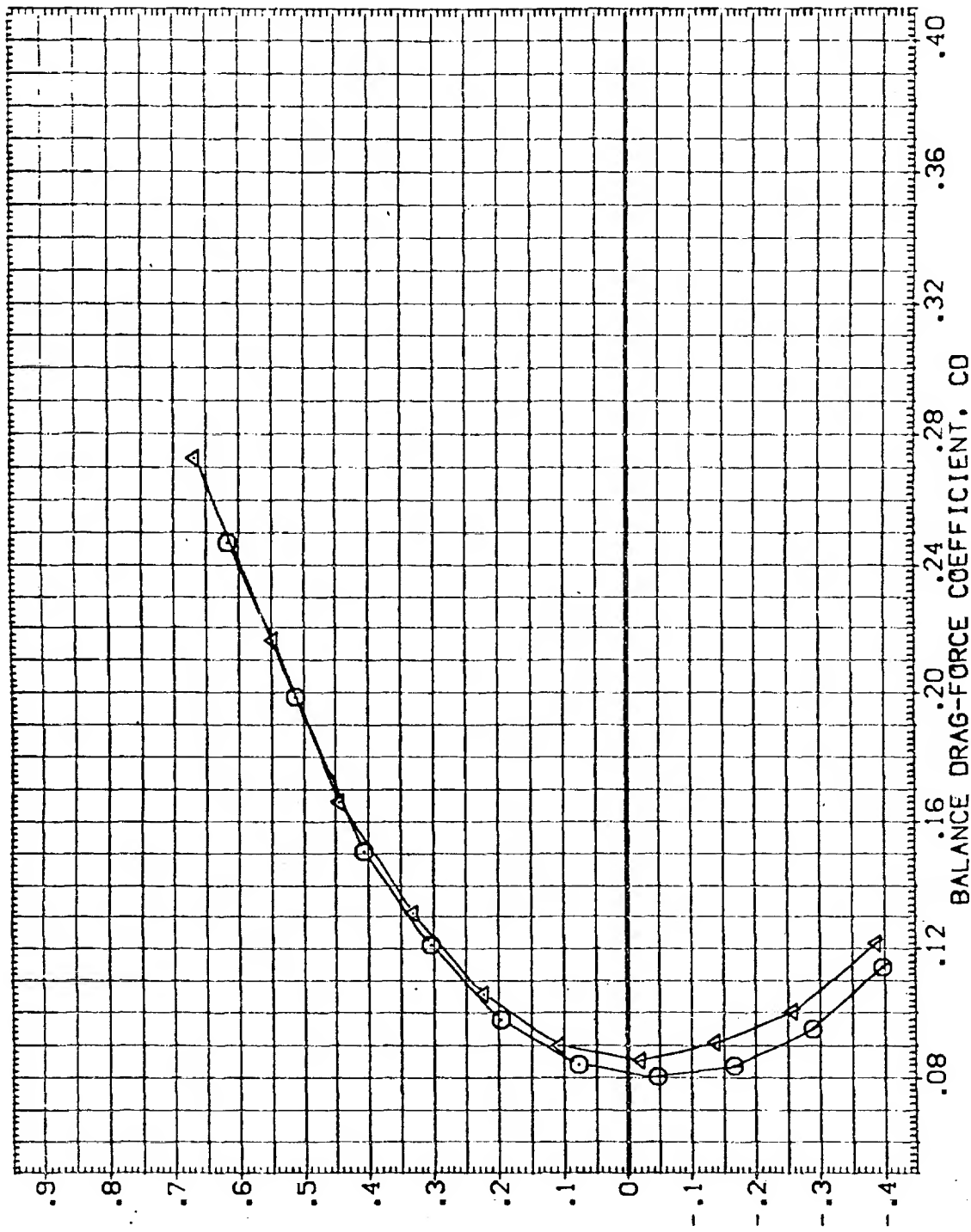


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(CER005)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

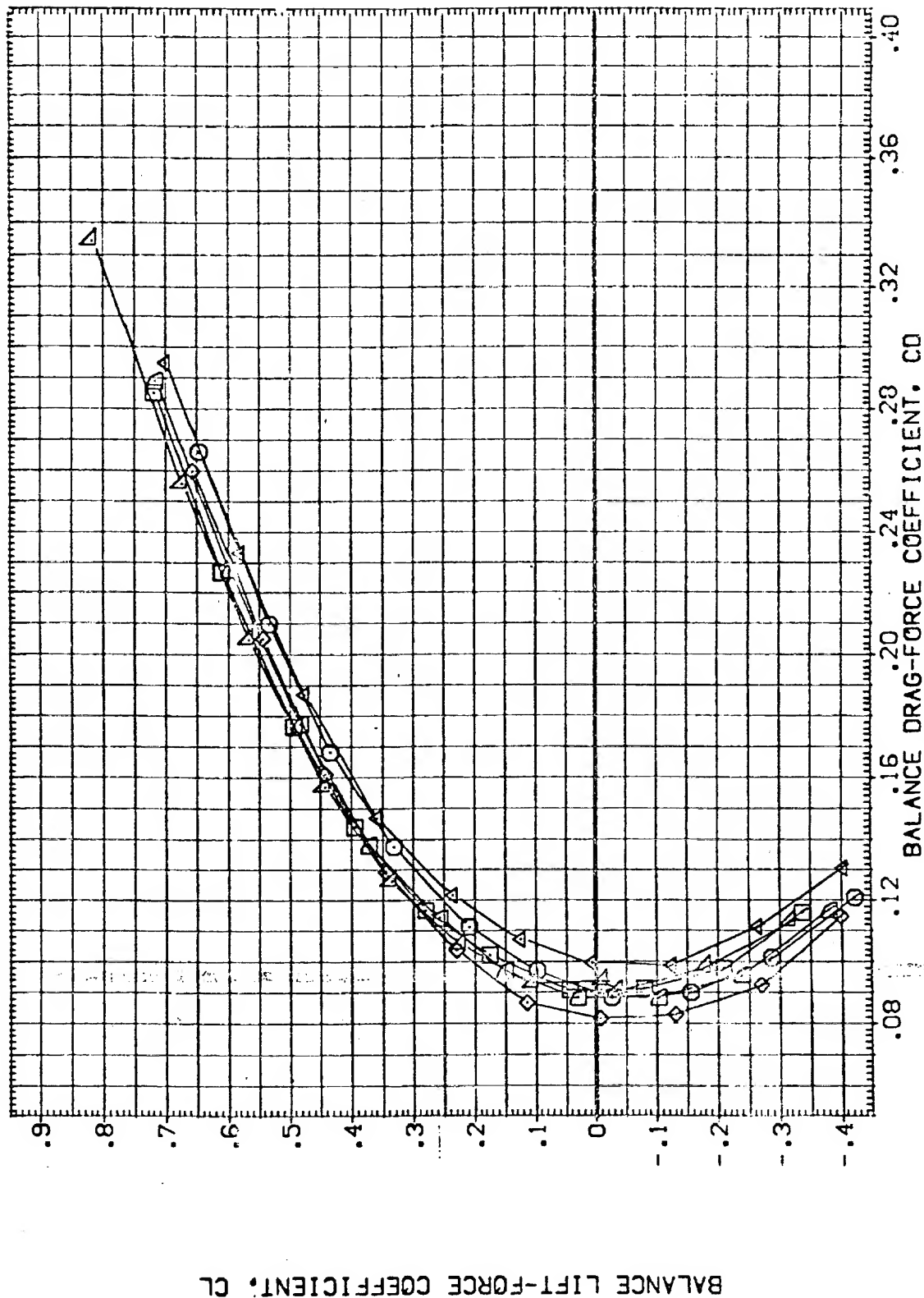


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F.)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(CER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

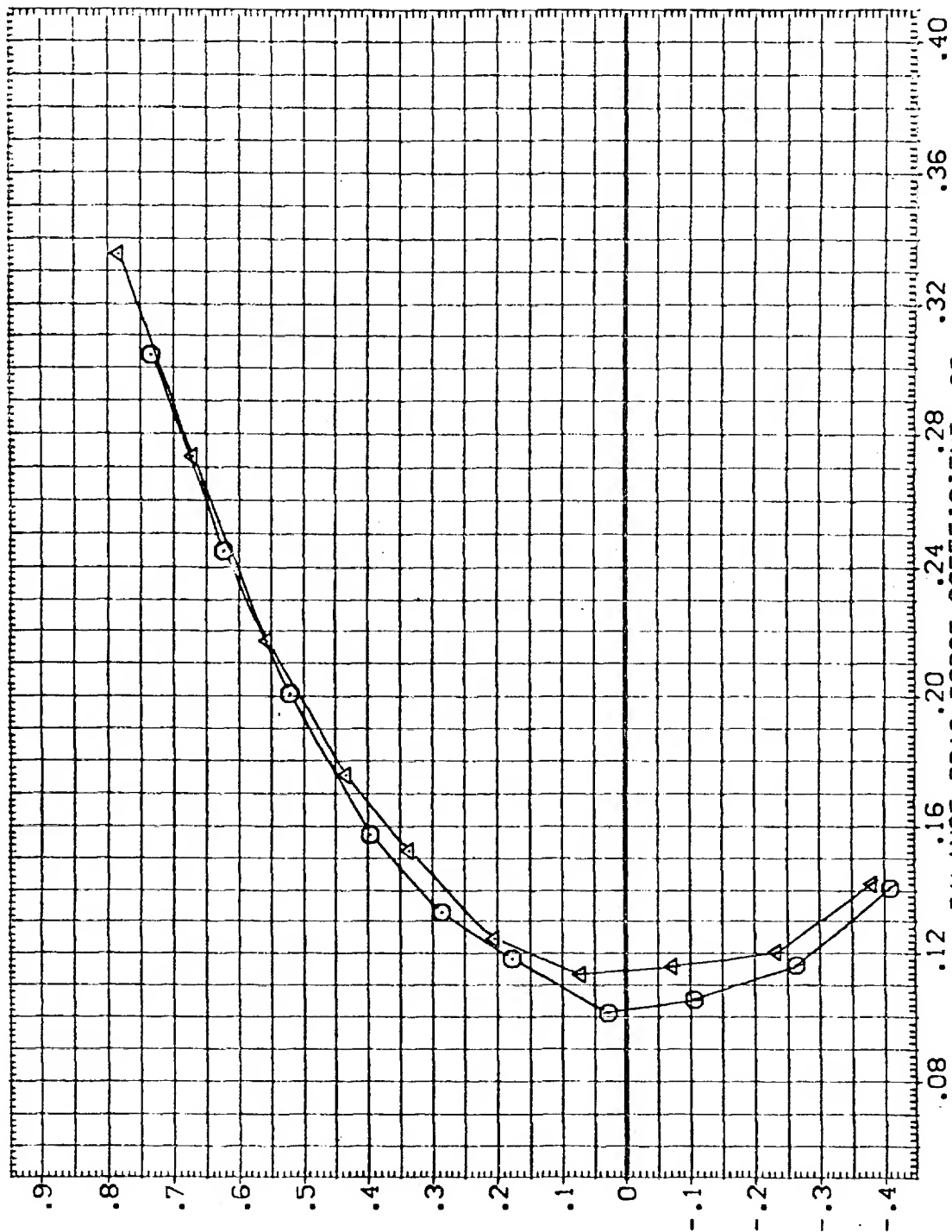


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(CER012)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(CER014)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(CER015)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

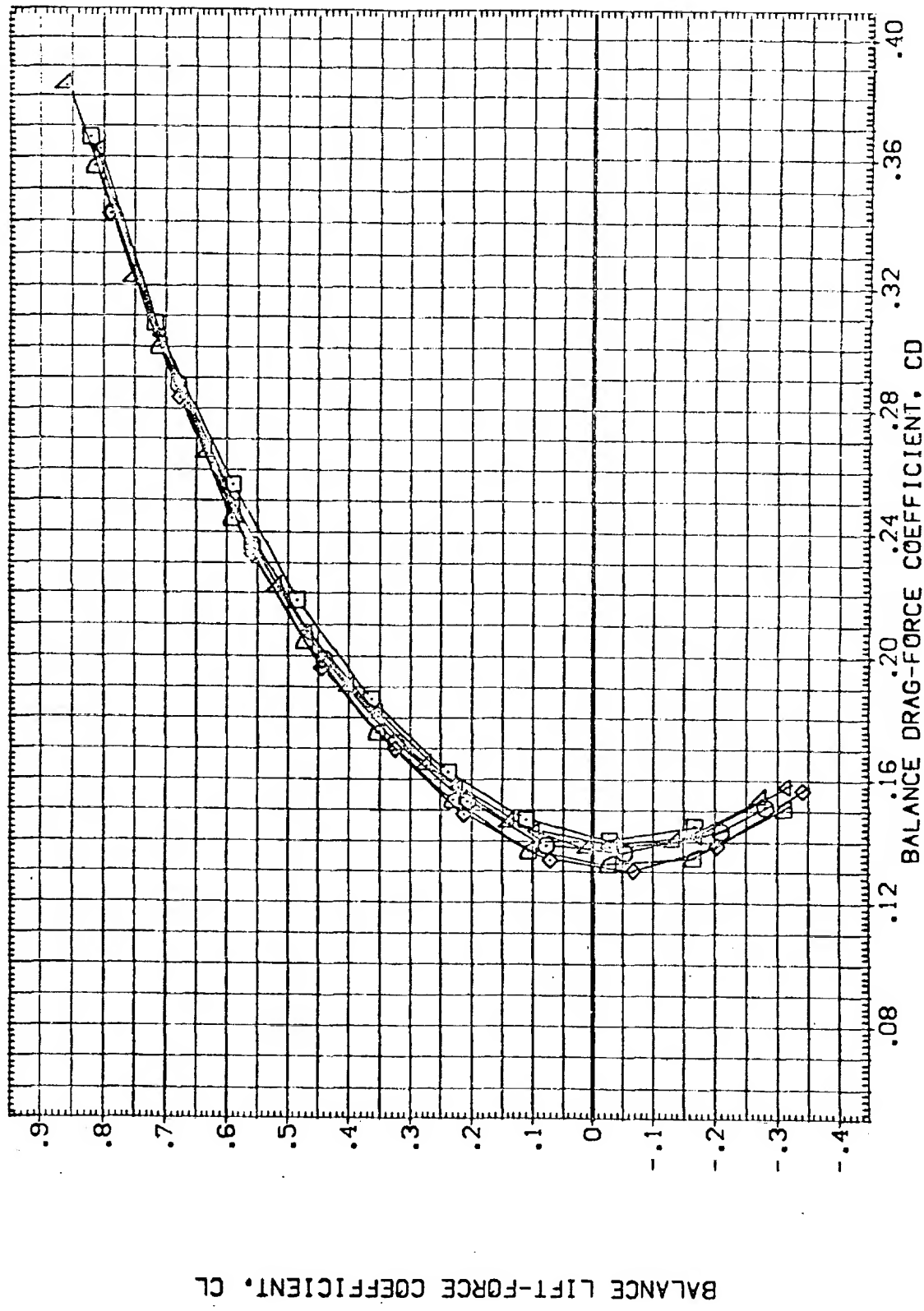


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(CER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(CER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(CER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(CER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(CER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(CER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

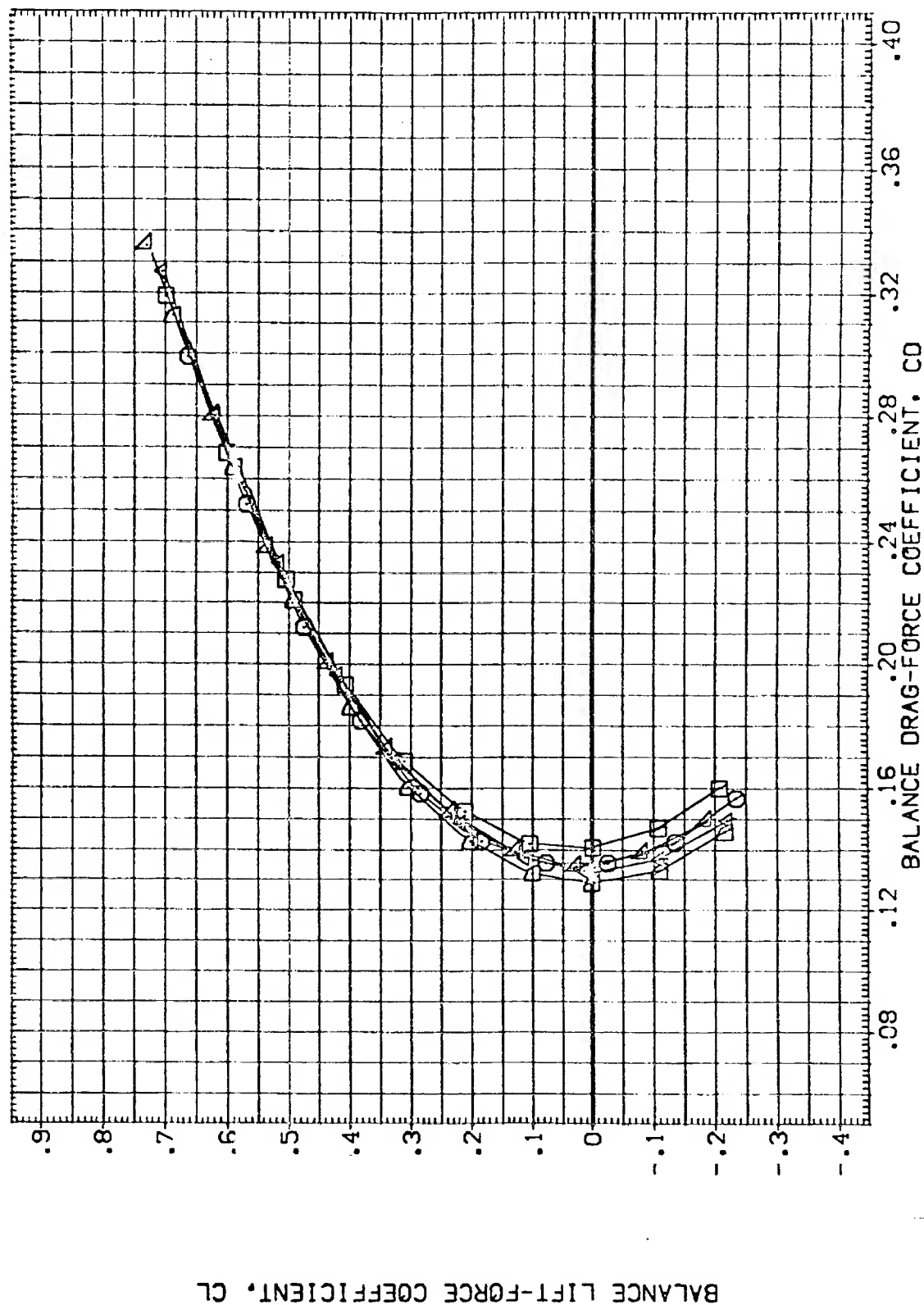


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

REFERENCE INFORMATION

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STNG
ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STNG
ARC 66-709	DA59	DA11A-(N24	RS	V81+STRUT+DUM	STNG
ARC 66-709	DA59	DA11A-(RS	V81+STRUT		
ARC 66-709	DA59	DA11A-(RS	V81+STRUT		

DATA SET SYMBOL

{CER001}	
{CER005}	
{CER006}	
{CER012}	
{CER014}	
{CER015}	

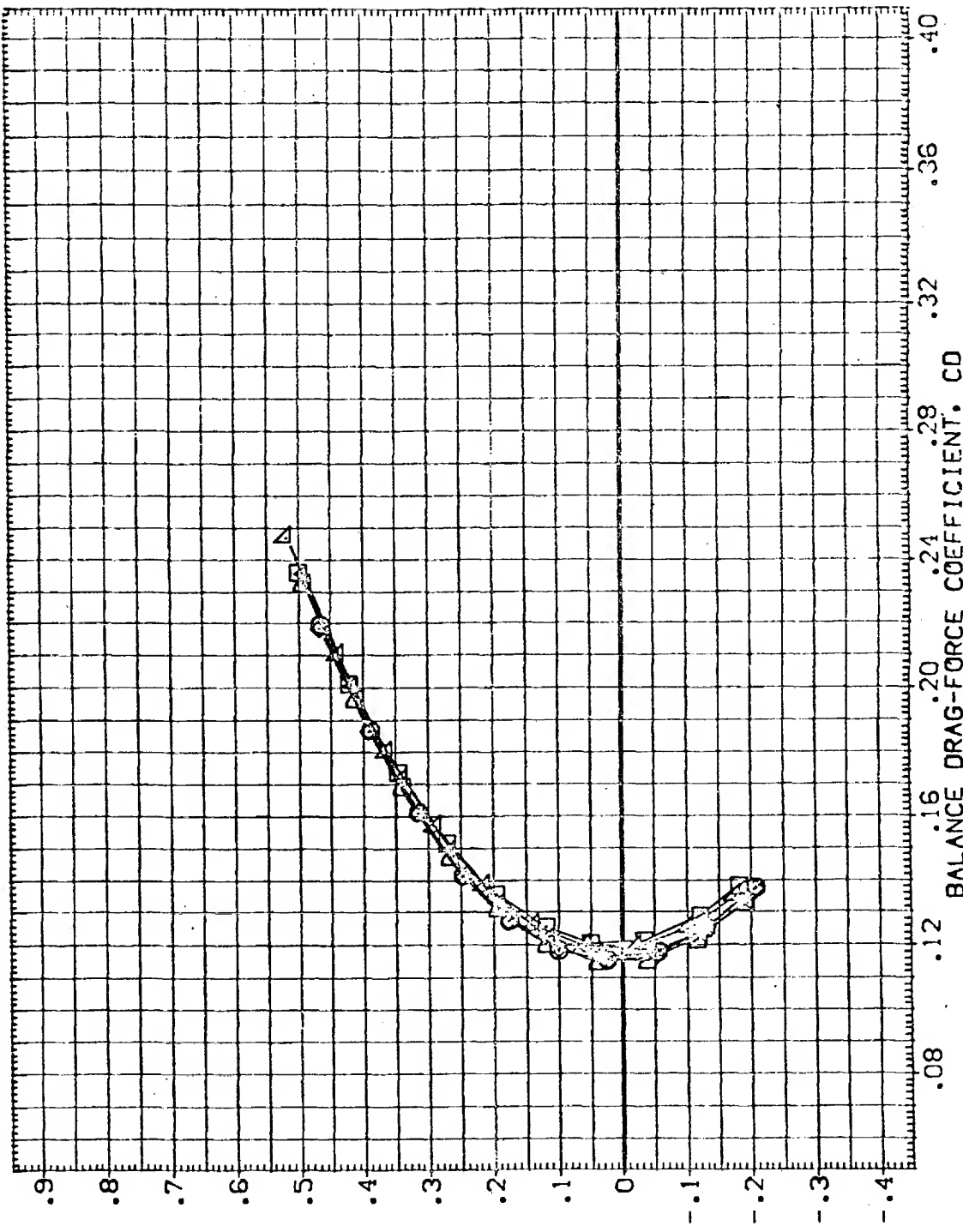
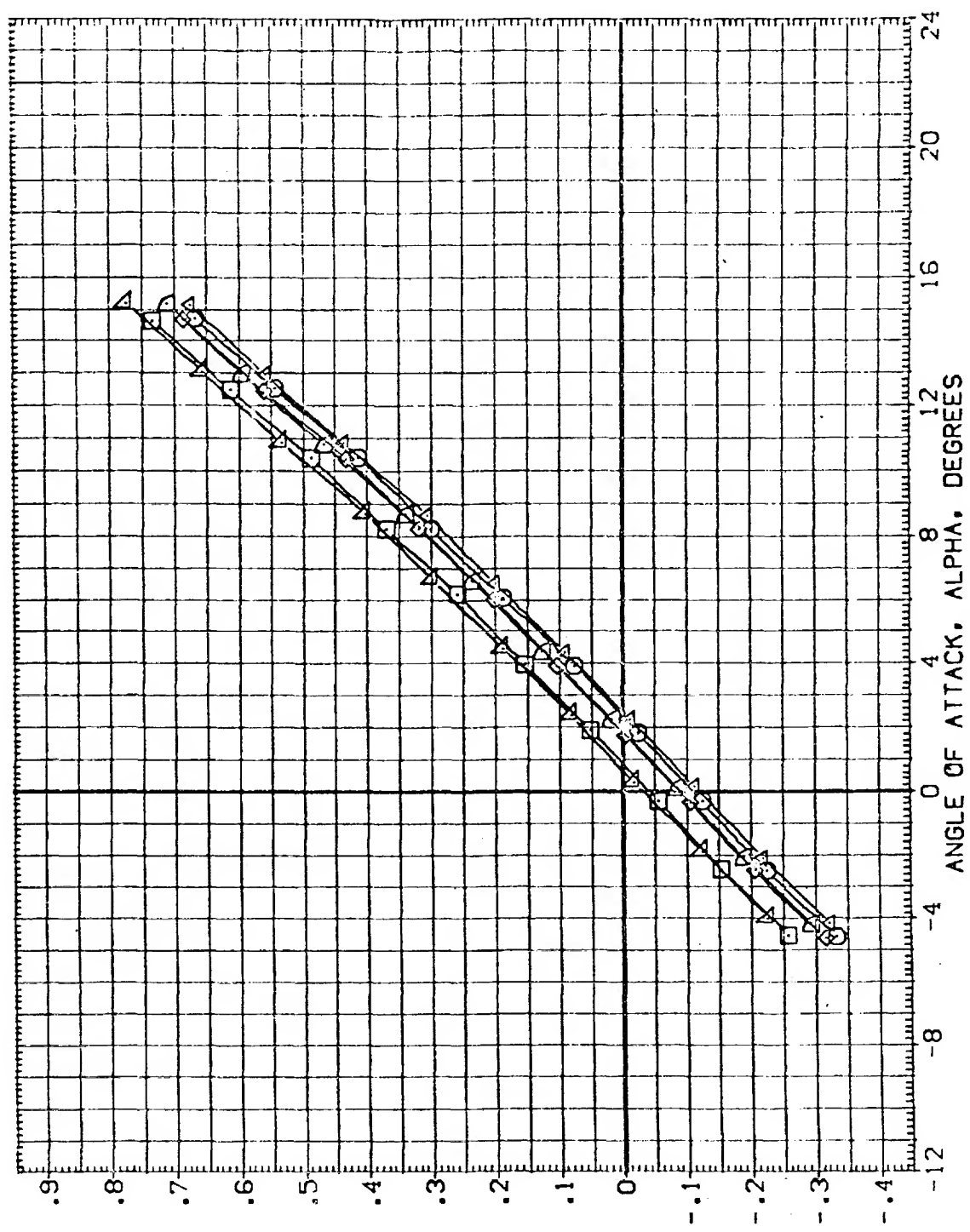


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5335 FT.
(GER006)	ARC 66-709 DAS9 DA11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CnT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

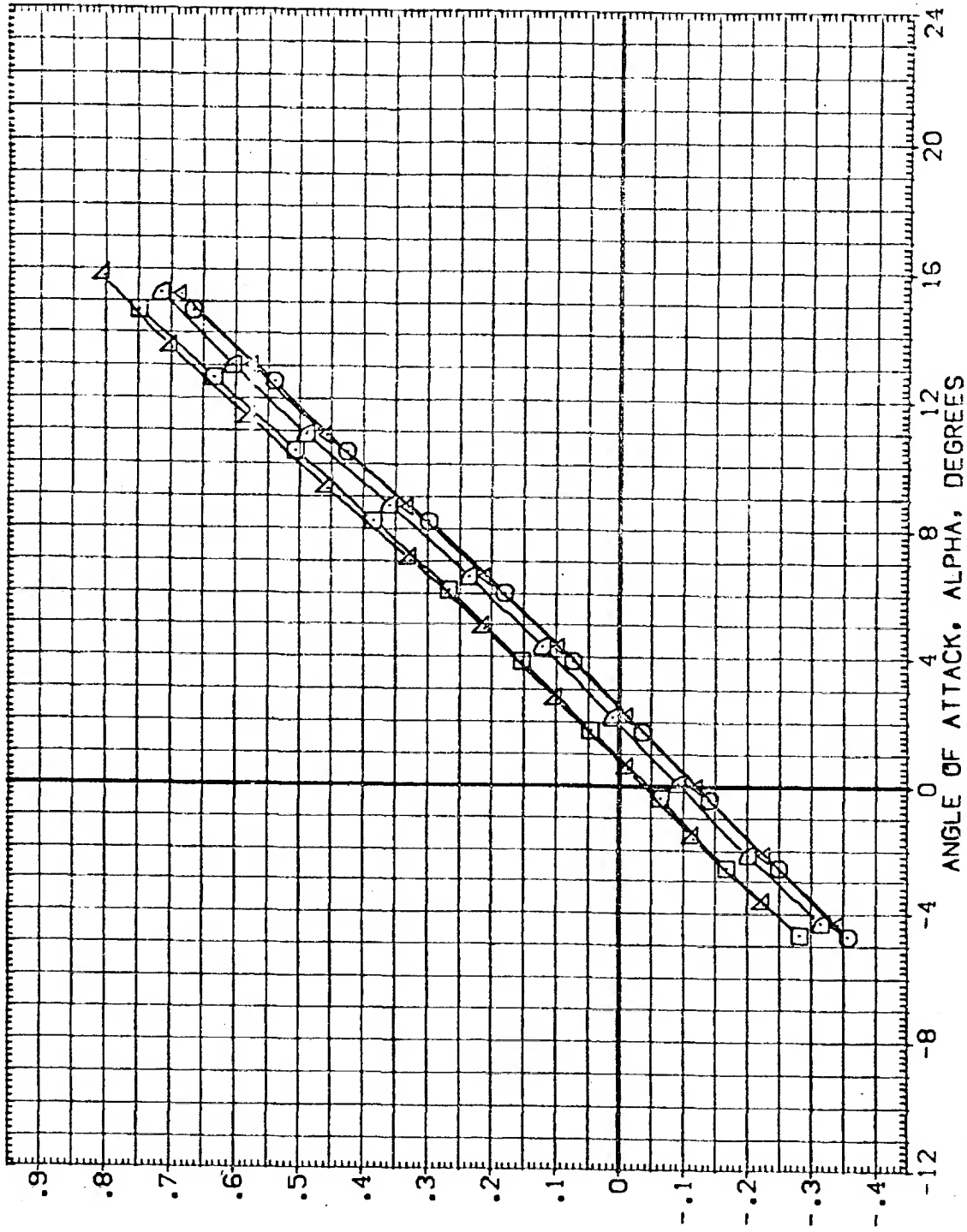


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

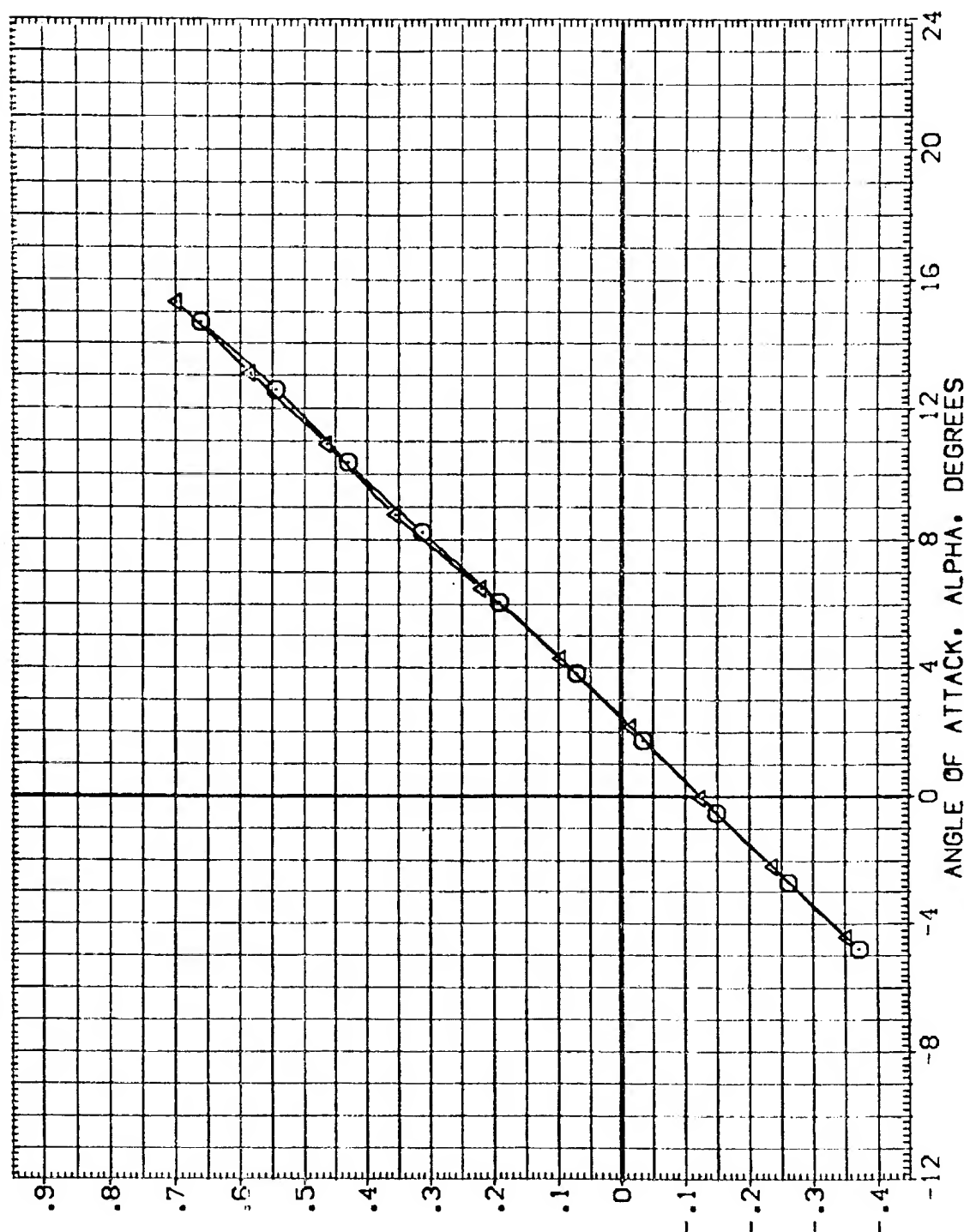


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS
 (C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 .000 -11.700 SREF .6053 SQ.FT.

(GER005) ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG .000 .000 16.300 LREF .5935 FT.

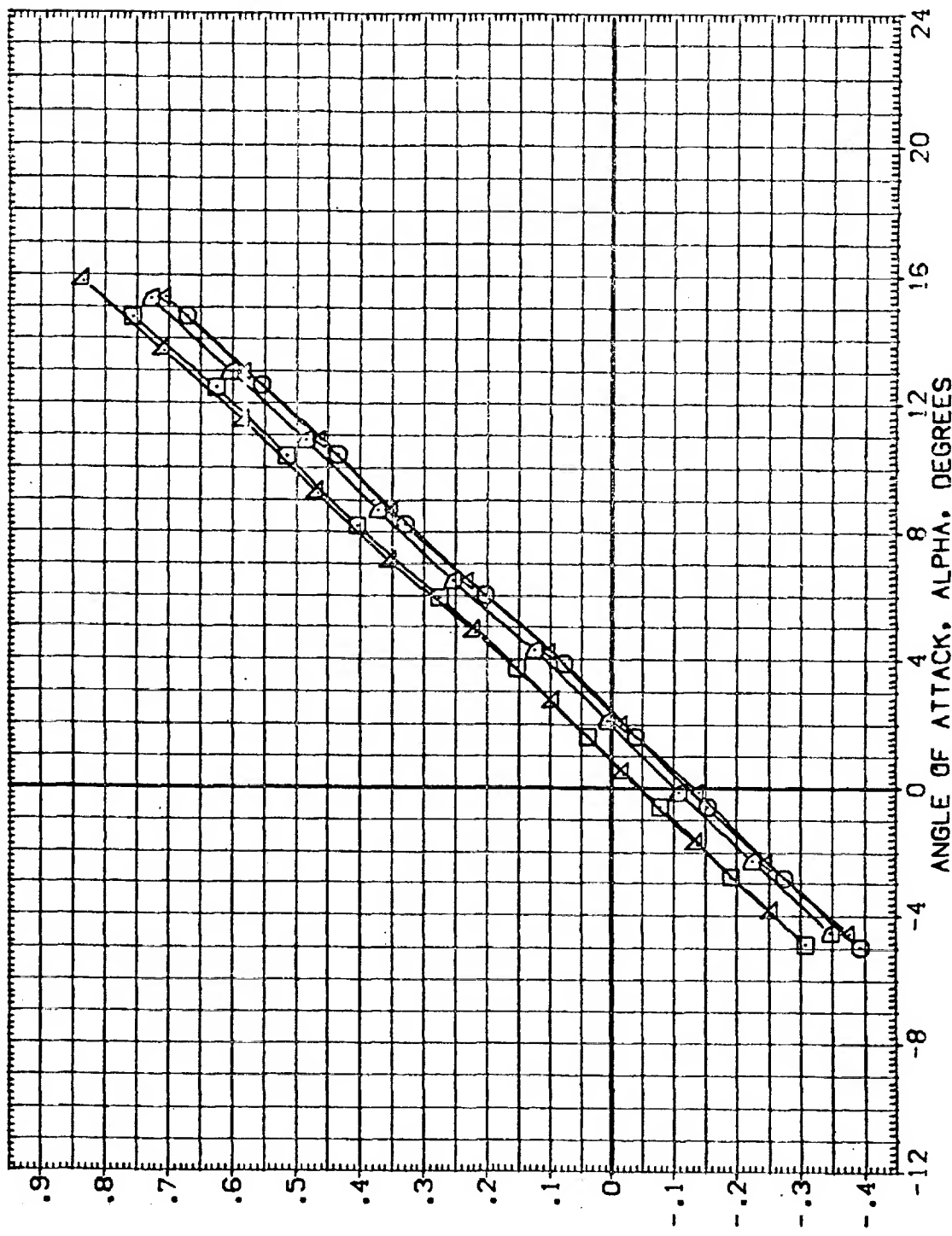
(GER006) DATA NOT AVAILABLE .000 .000 .000 BREF 1.1710 IN.

(GER012) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT .000 .000 -11.700 XMRP 12.6255 IN.

(GER014) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT .000 .000 16.300 YMRP .0000 IN.

(GER015) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT .000 .000 .000 ZMRP -.3750 IN.

SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CNI

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	.000	16.300	YMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE .0150

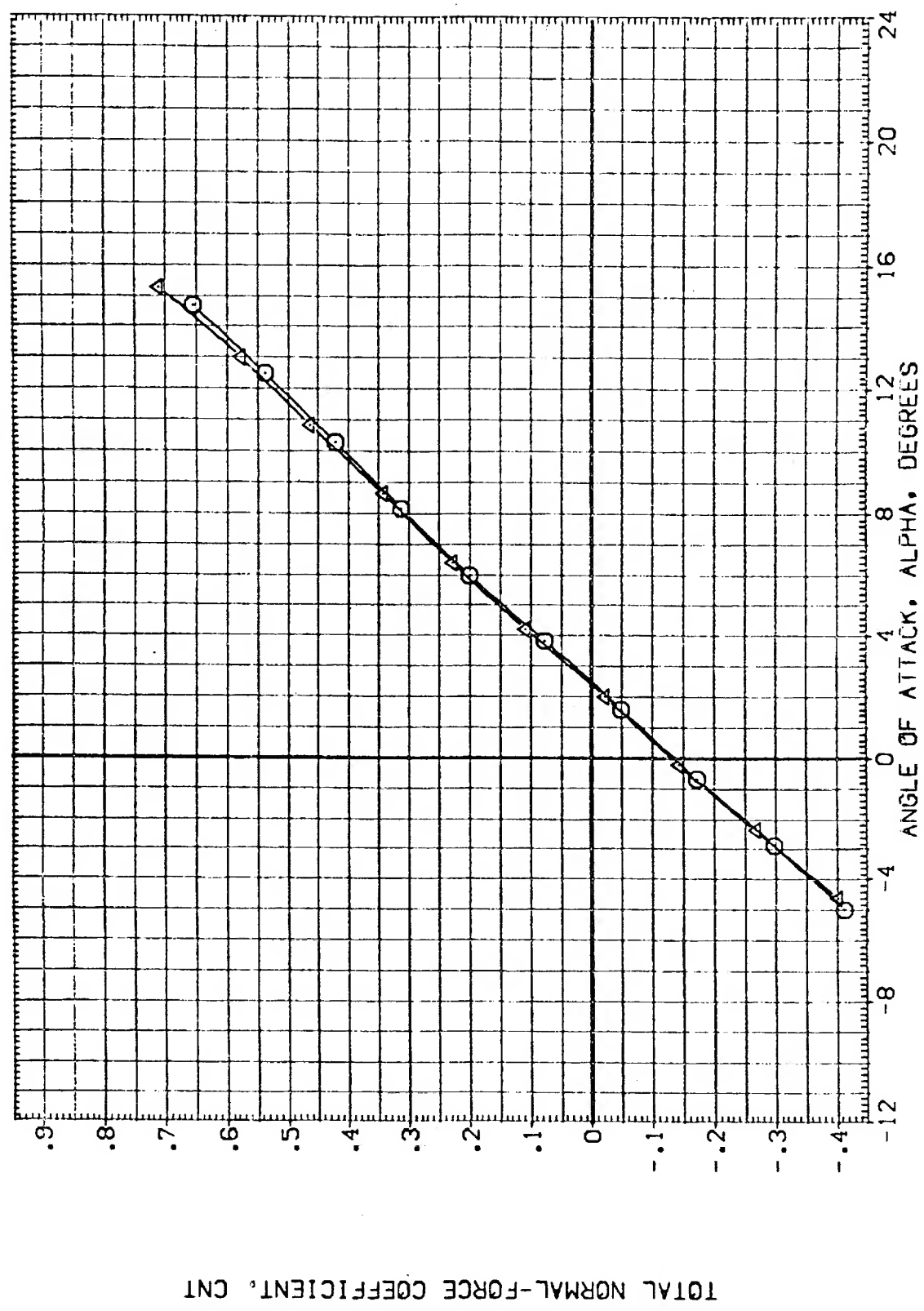


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	SCALE -.3750 IN.

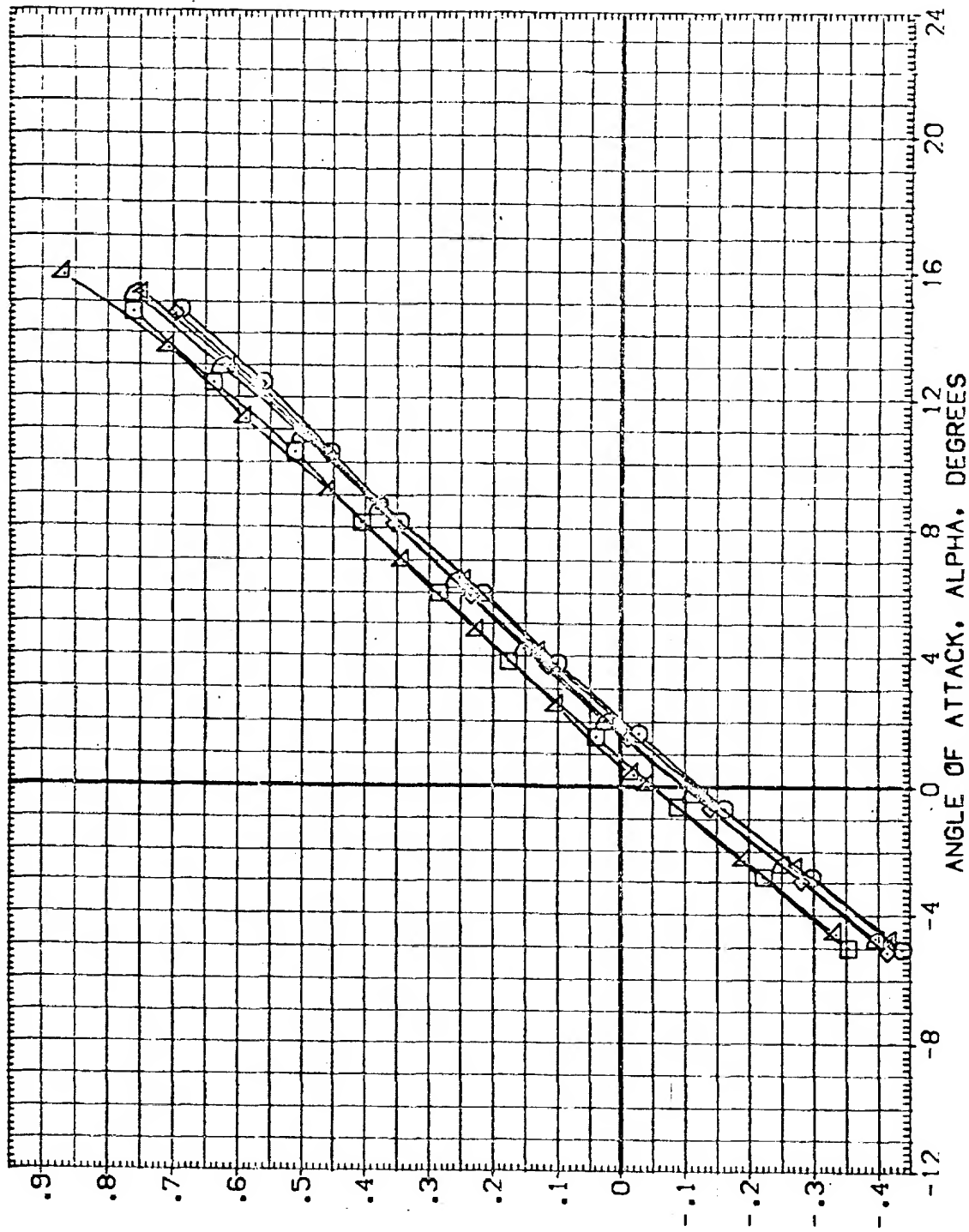
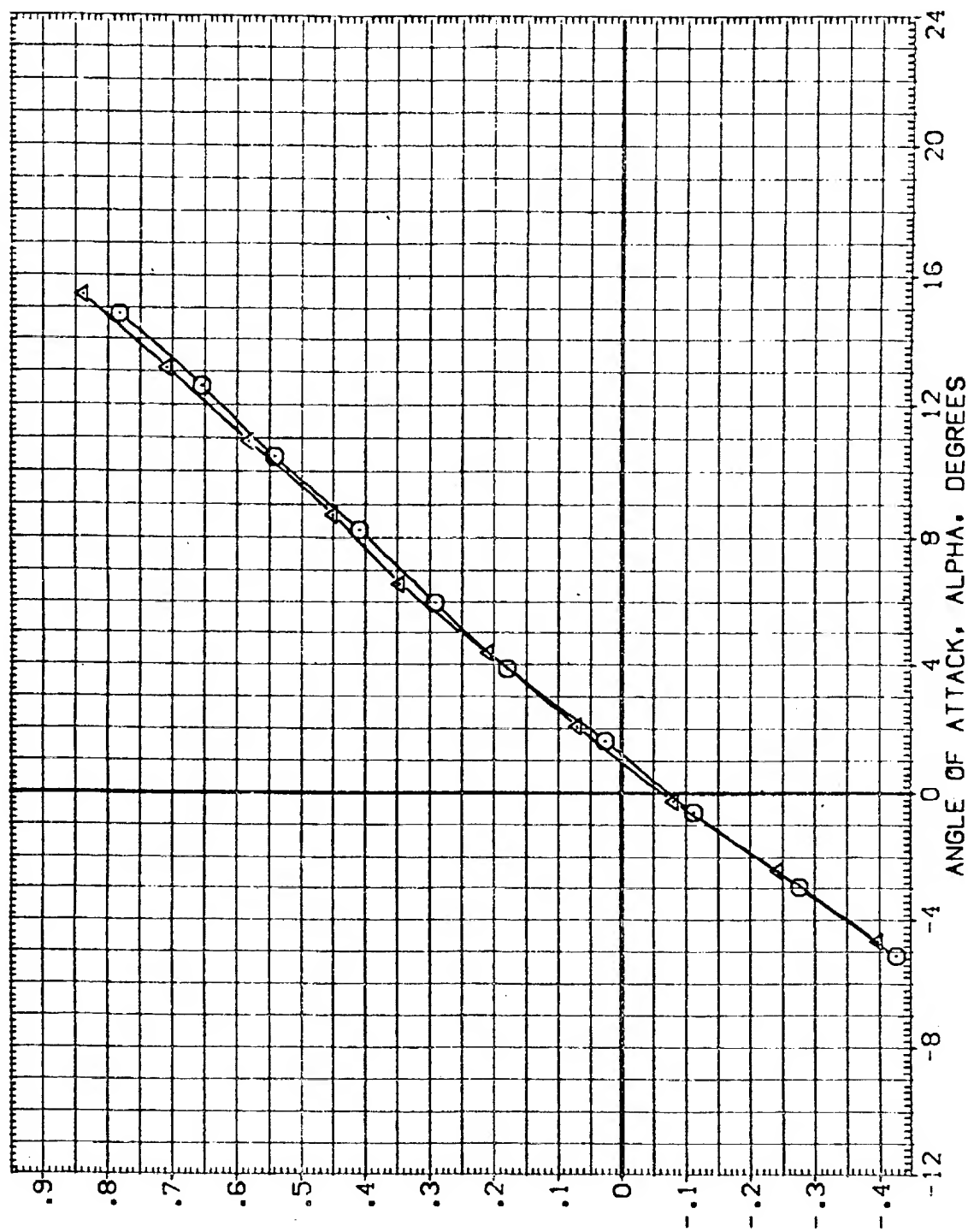


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDF LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL NORMAL-FORCE COEFFICIENT, CNT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

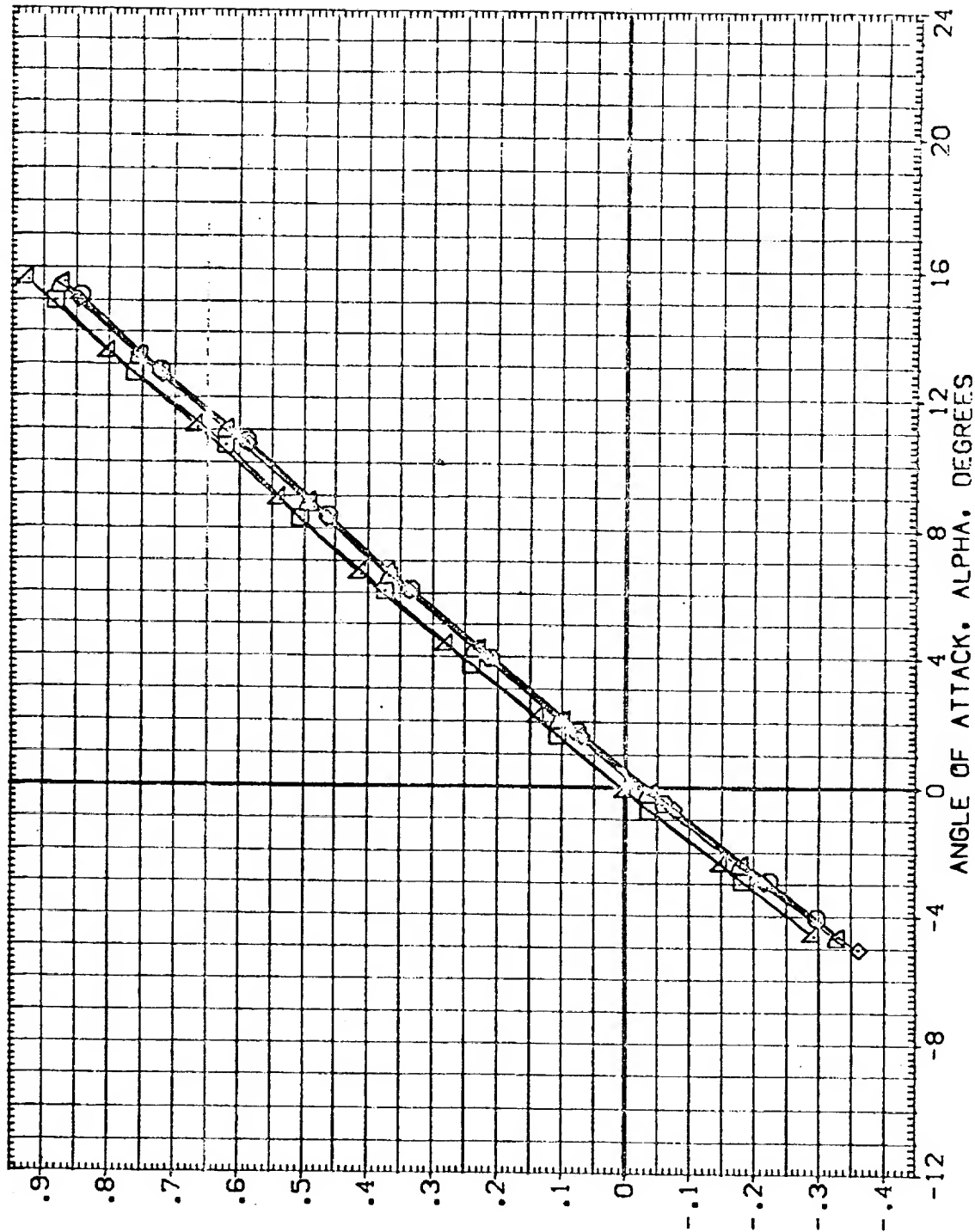


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

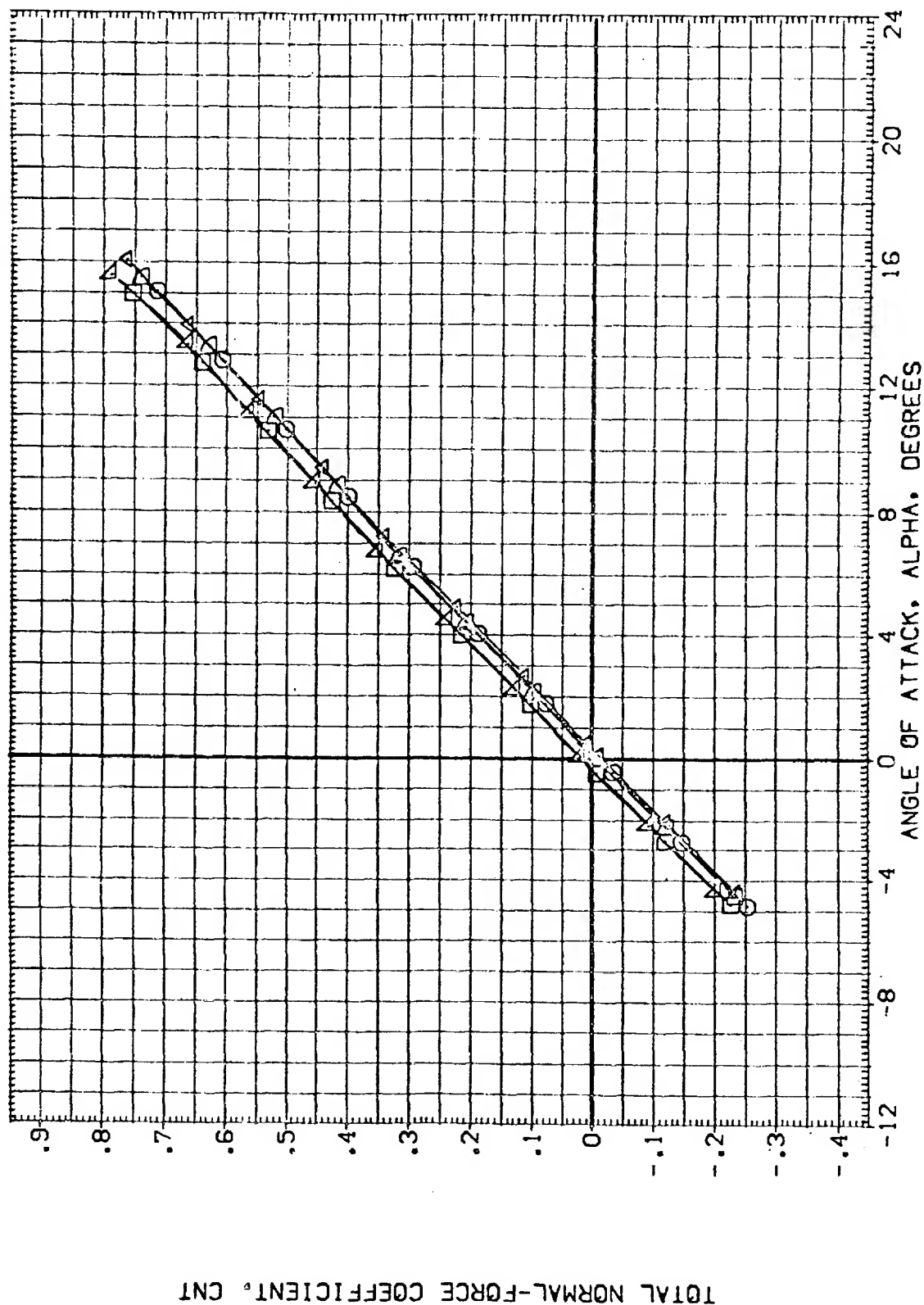


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	16.300
	.000
	-11.700
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	DAS9	DA11A-(N24	R5	V81+STRUT+DUM	STING
ARC 66-709	DAS9	DA11A-(N24	R5	V81+STRUT+DUM	STING
ARC 66-709	DAS9	DA11A-(N24	R5	V81+STRUT+DUM	STING
ARC 66-709	DAS9	DA11A-(R5	V81+STRUT		
ARC 66-709	DAS9	DA11A-(R5	V81+STRUT		
ARC 66-709	DAS9	DA11A-(R5	V81+STRUT		

DATA SET SYMBOL

(GER001)	
(GER005)	
(GER006)	
(GER012)	
(GER014)	
(GER015)	

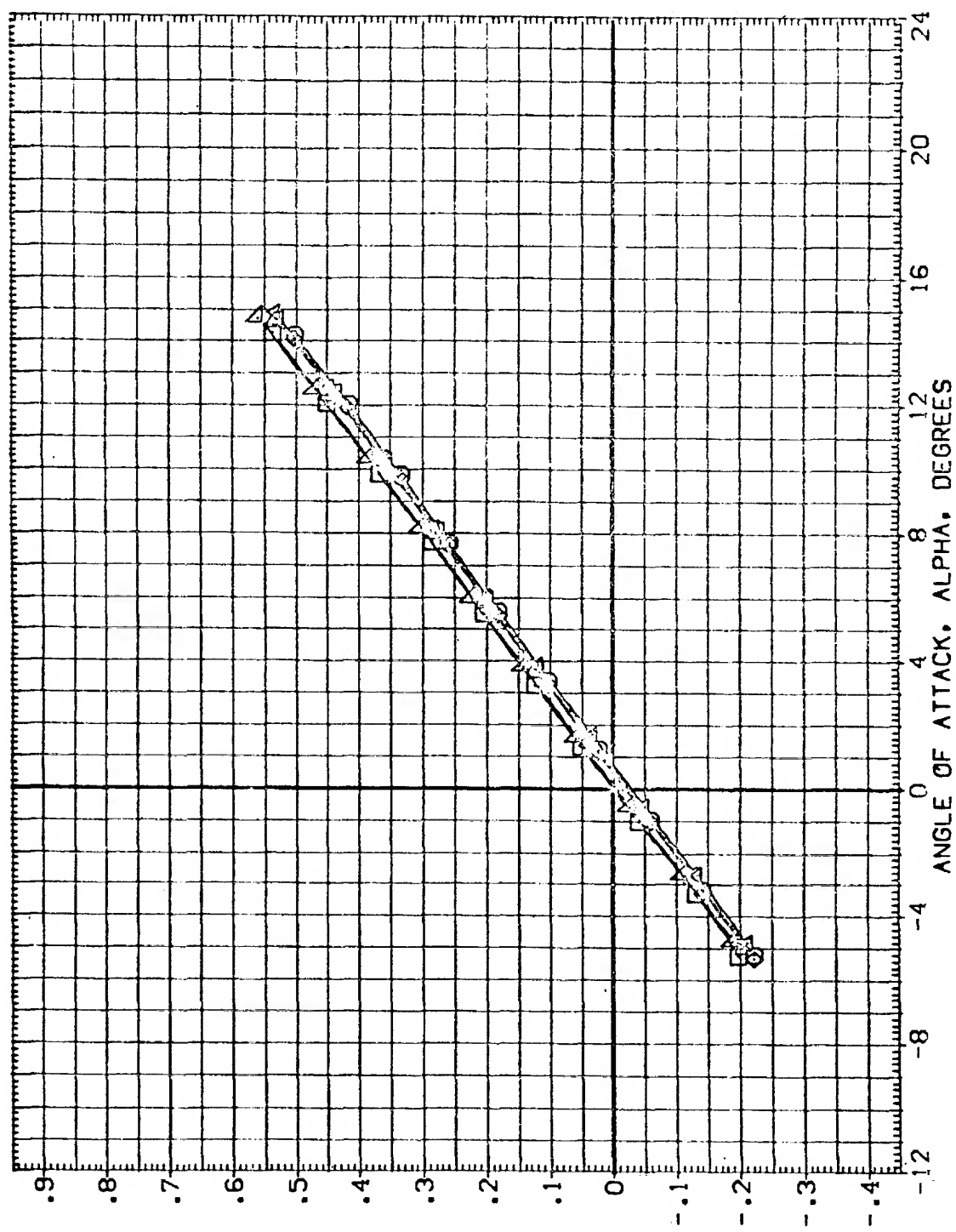


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

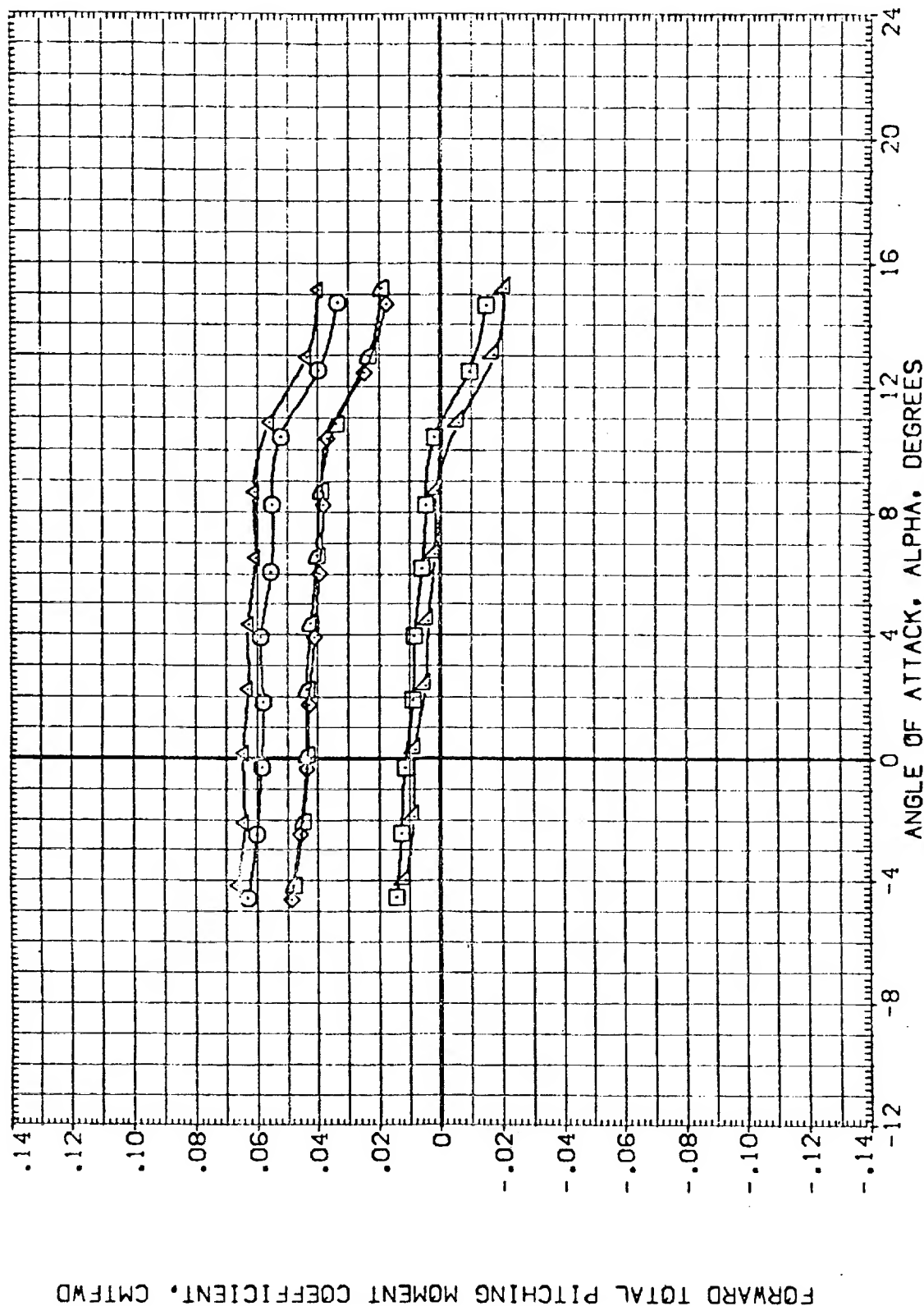
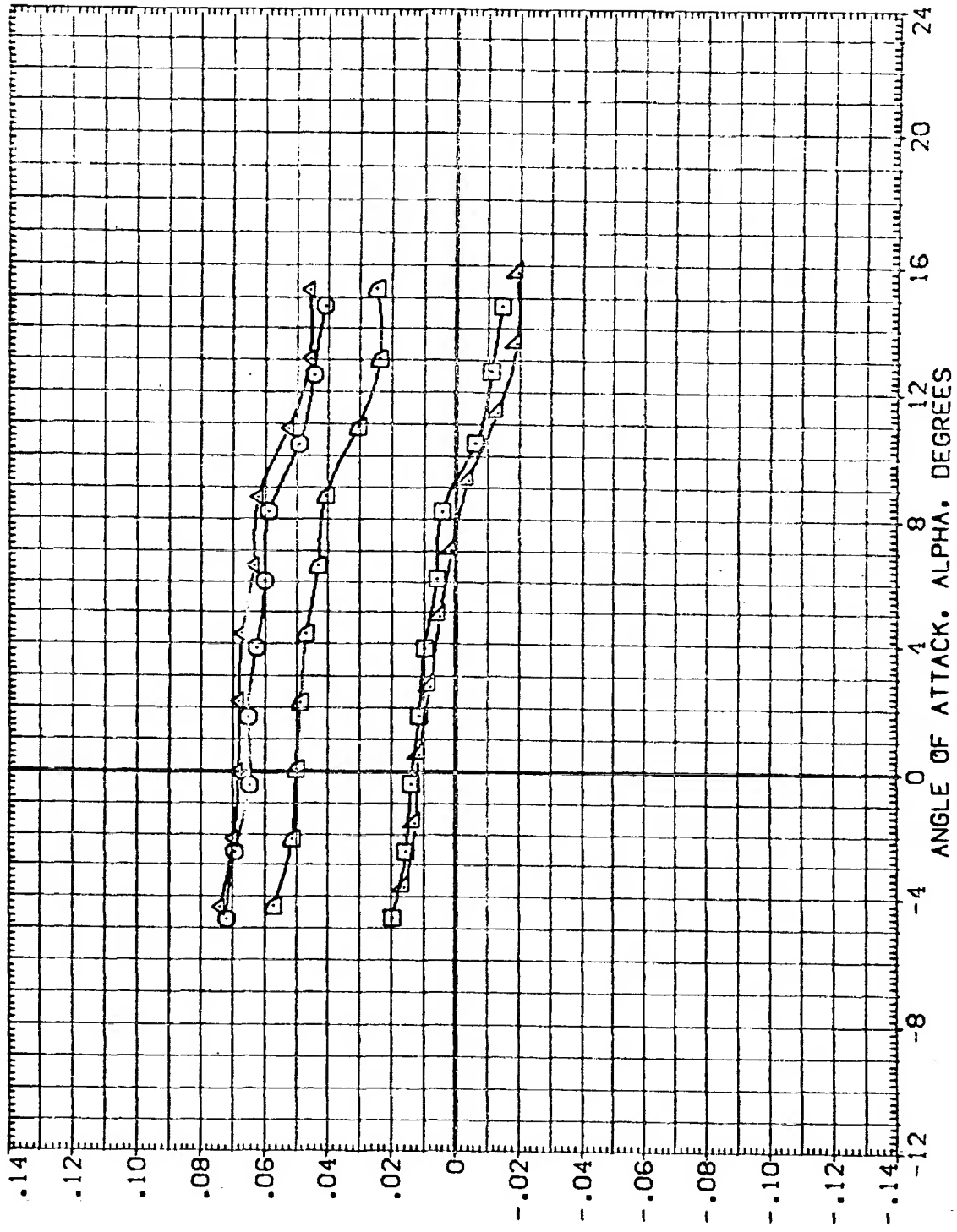


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEV/DN	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
{GER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
{GER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{GER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{GER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{GER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

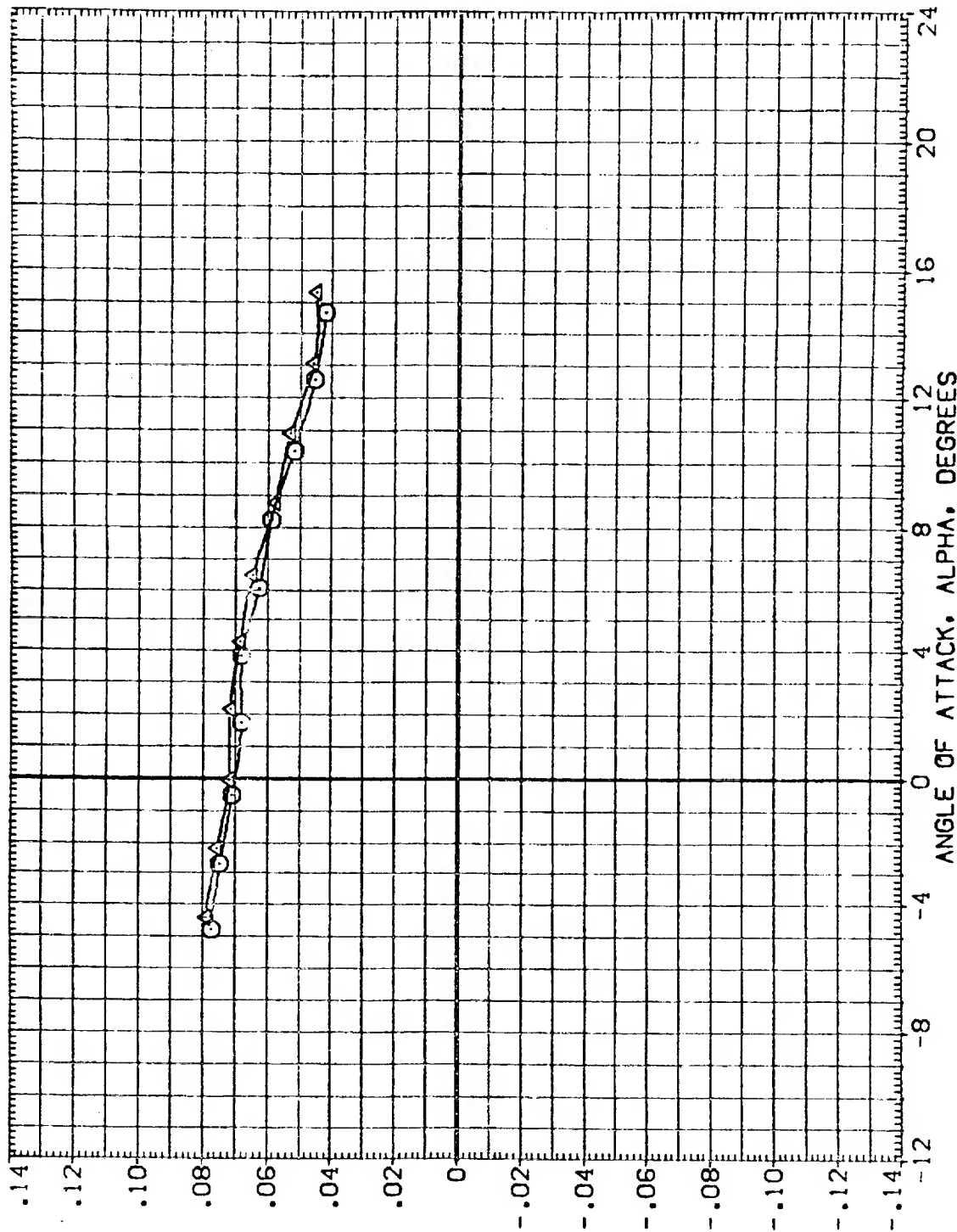


FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFWD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 DA11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEV/DN	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

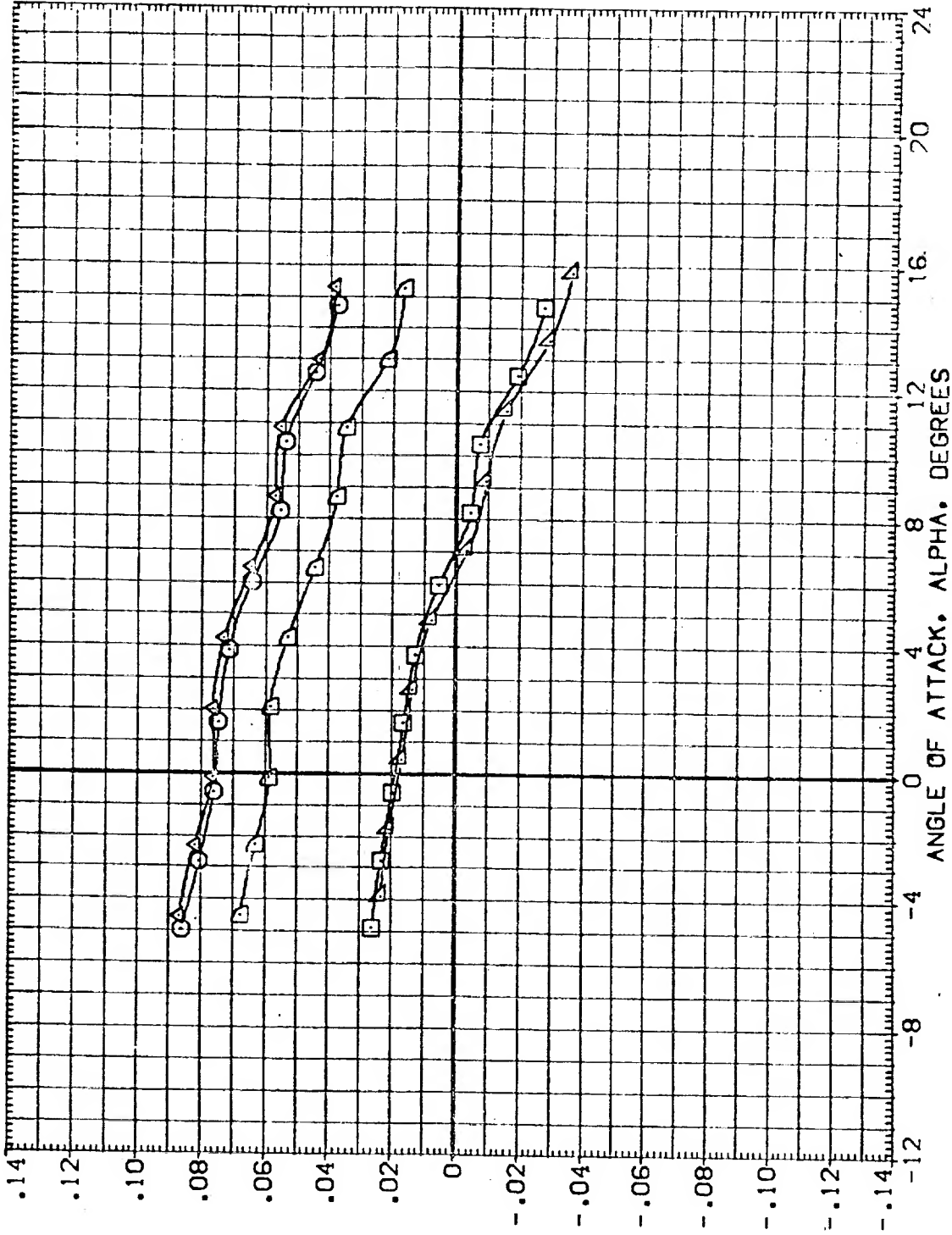


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER005}	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
{GER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{GER012}	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{GER014}	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
{GER015}	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

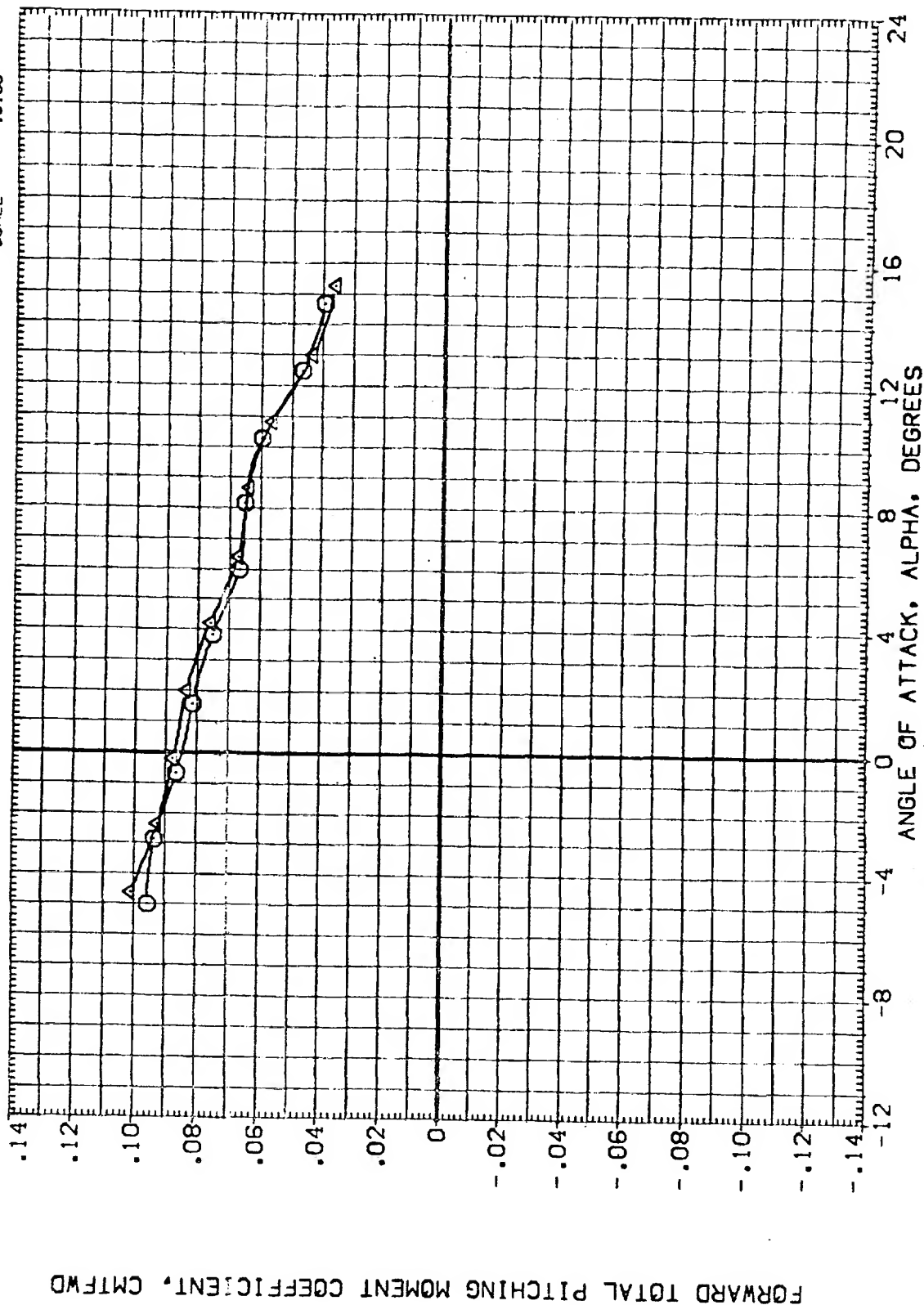


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

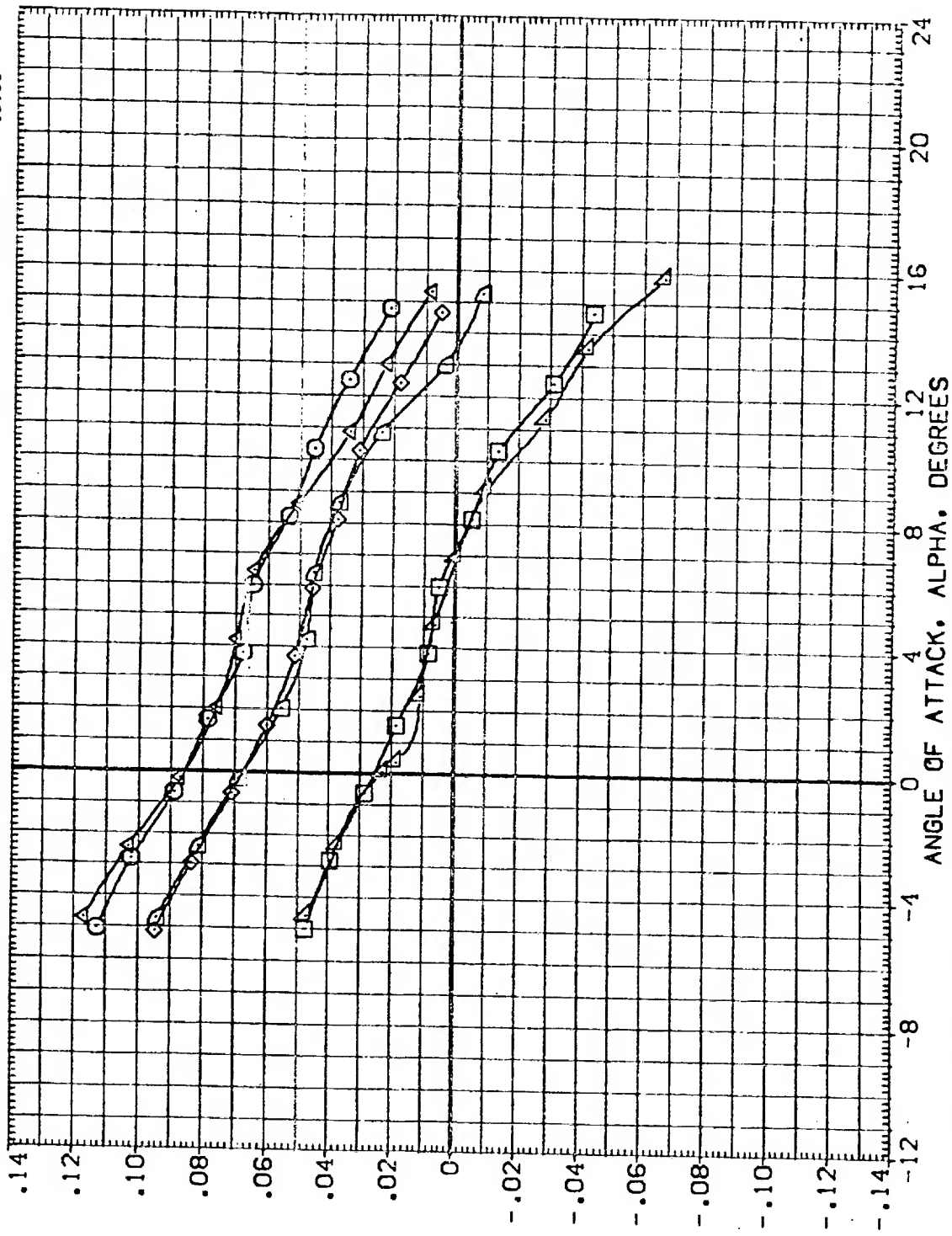


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

[GER001] ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG .000 .000 -11.700

[GER005] DATA NOT AVAILABLE .000 .000 16.300

[GER006] DATA NOT AVAILABLE .000 .000 .000

[GER012] ARC 66-709 0A59 0A11A-(R5 V8)+STRUT .000 .000 -11.700

[GER014] DATA NOT AVAILABLE .000 .000 16.300

[GER015] DATA NOT AVAILABLE .000 .000 .000

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

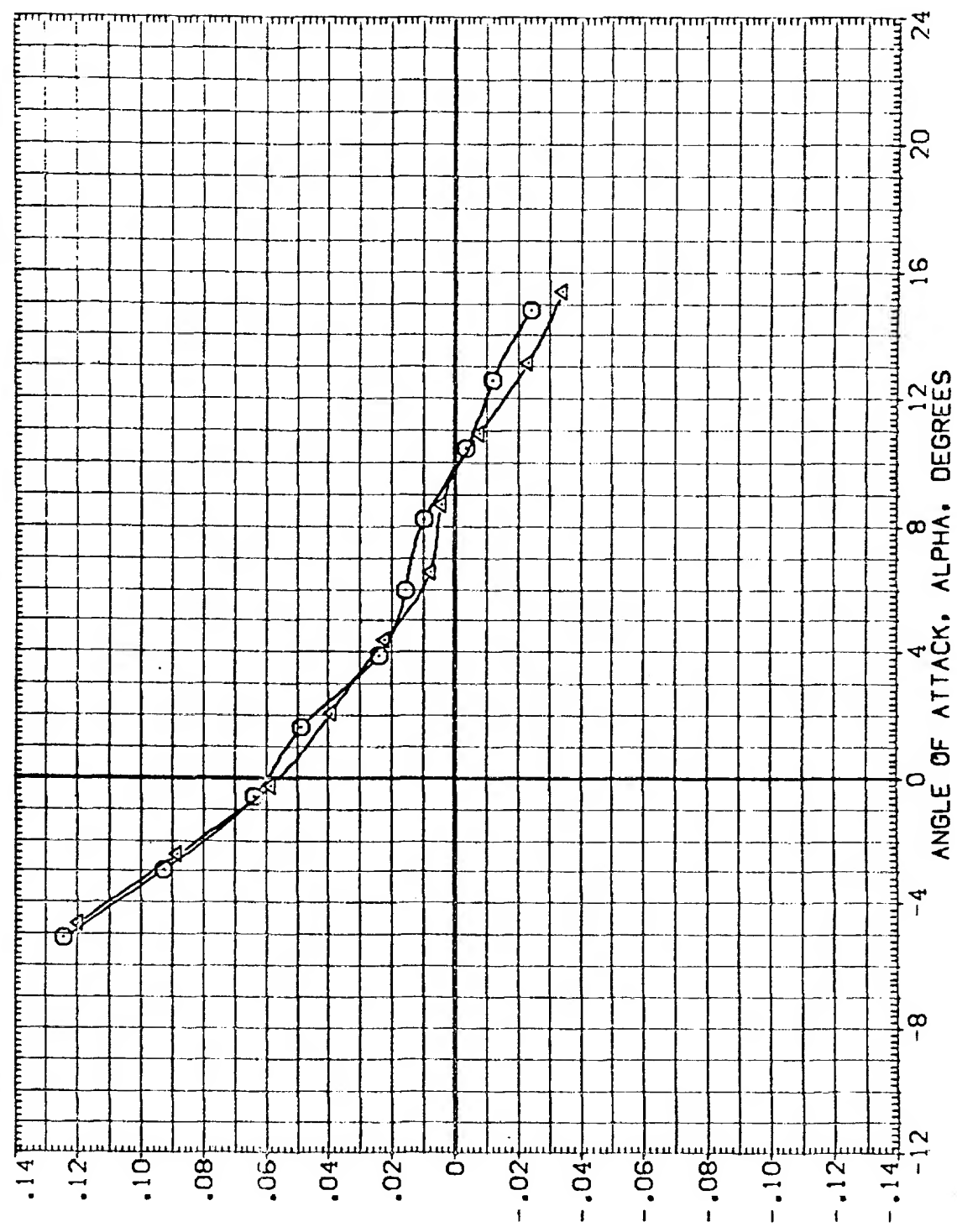
BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMFWD

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [GER001] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 [GER005] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 [GER006] ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 [GER012] ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 [GER014] ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 [GER015] ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

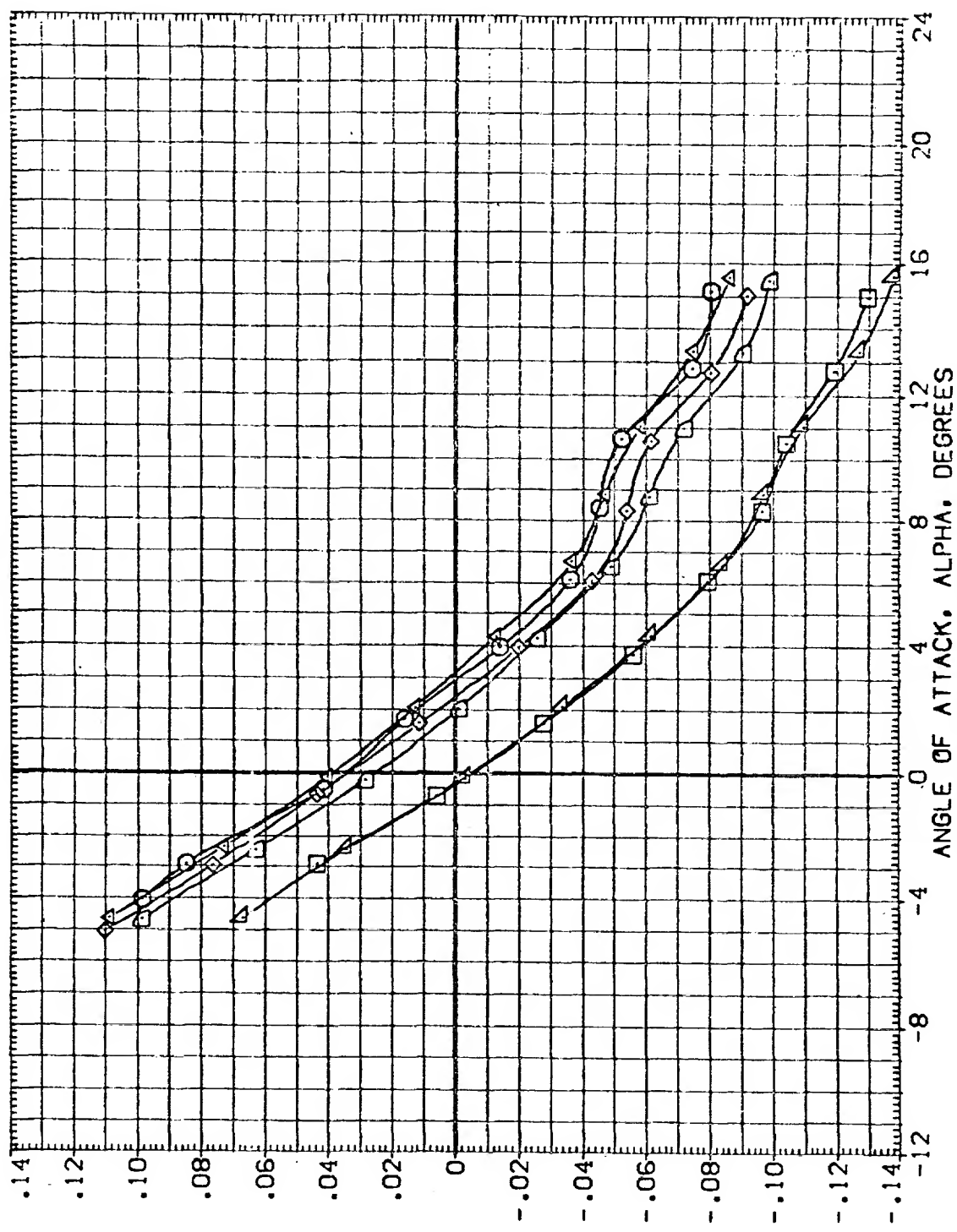


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 QAS9 Q111A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 Q111A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

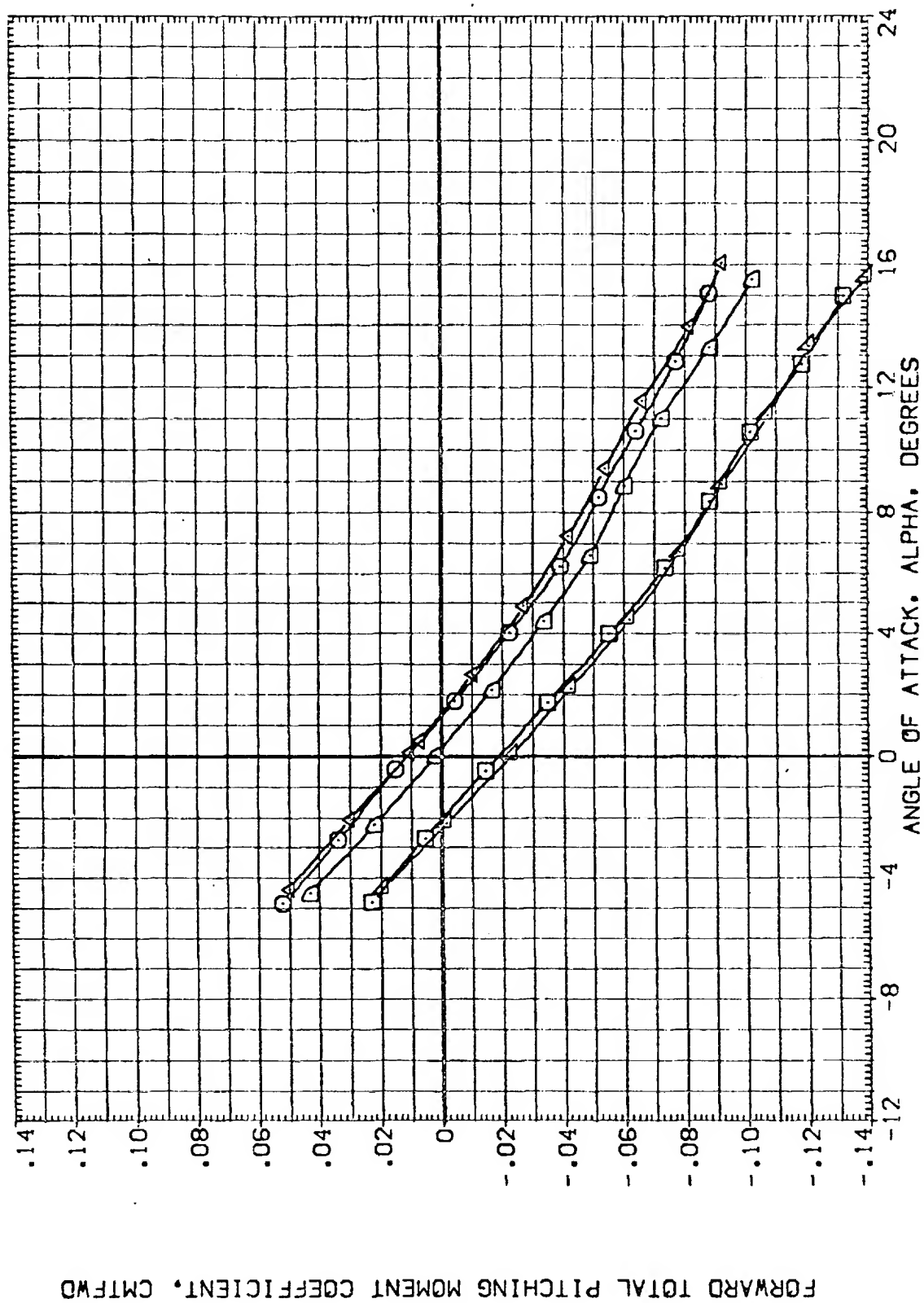


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 DA59 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DA59 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DA59 DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DA59 DA11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DA59 DA11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DA59 DA11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.

SCALE .0150

FORWARD TOTAL PITCHING MOMENT COEFFICIENT, CMTFWD

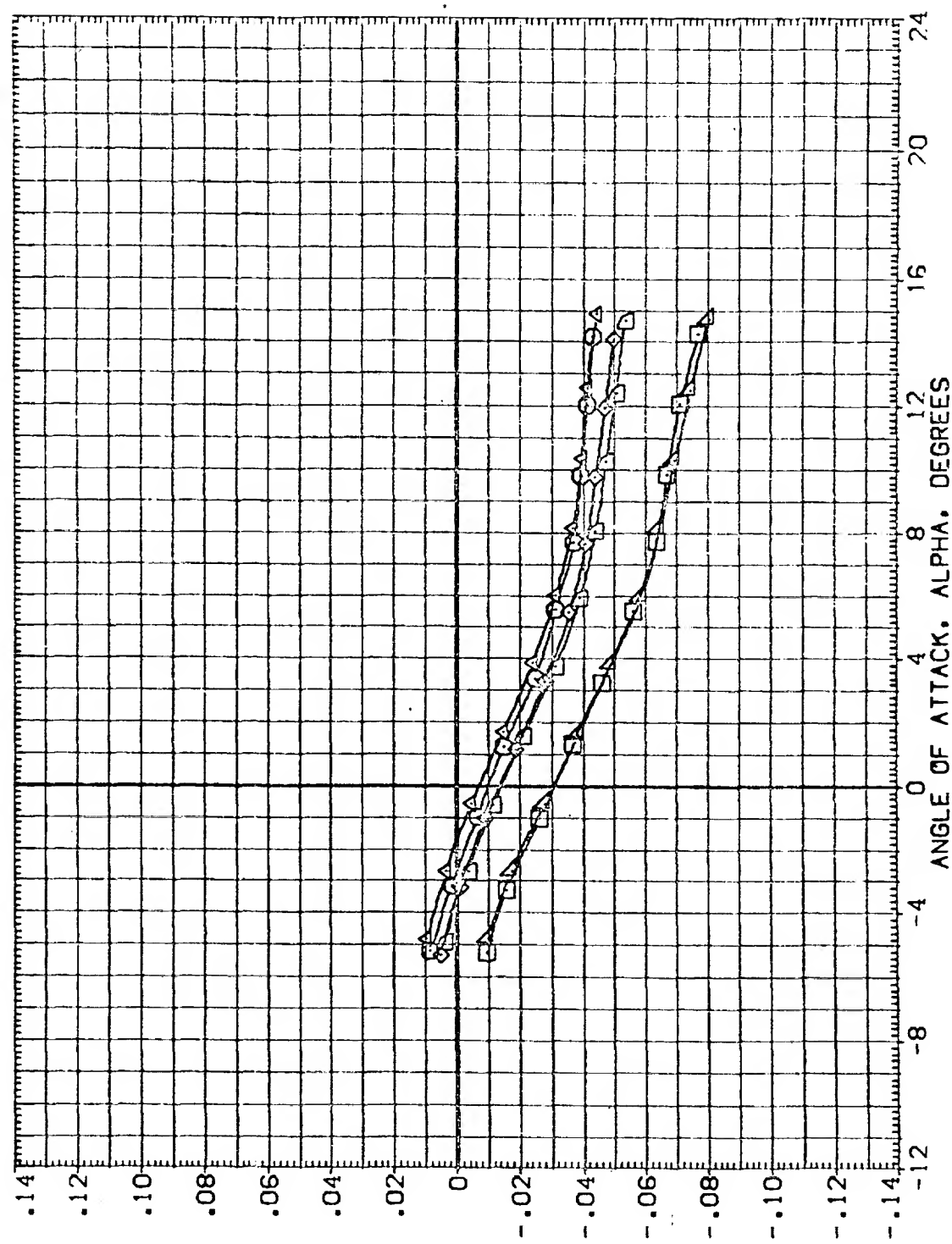


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(JJ)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5936 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

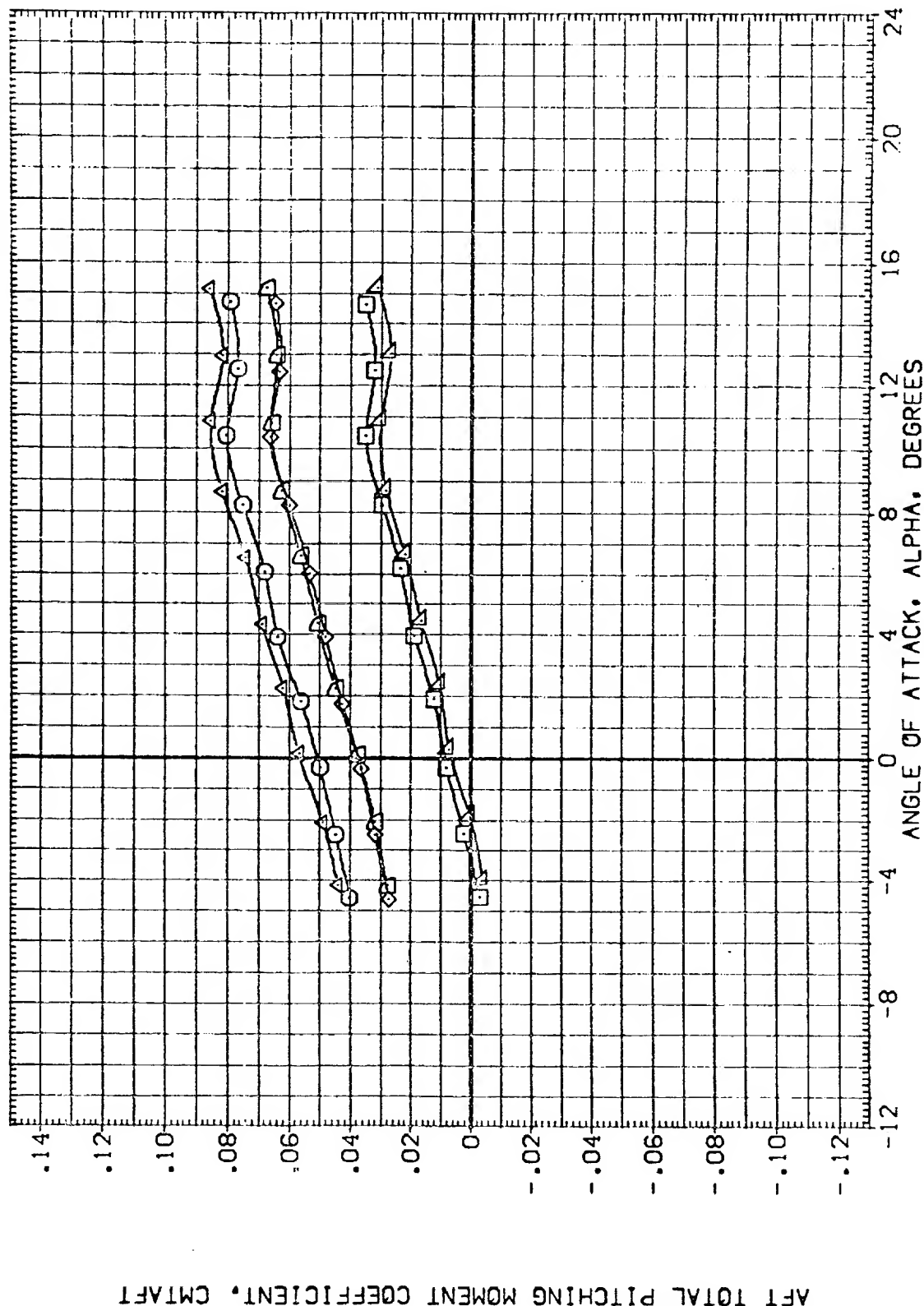


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

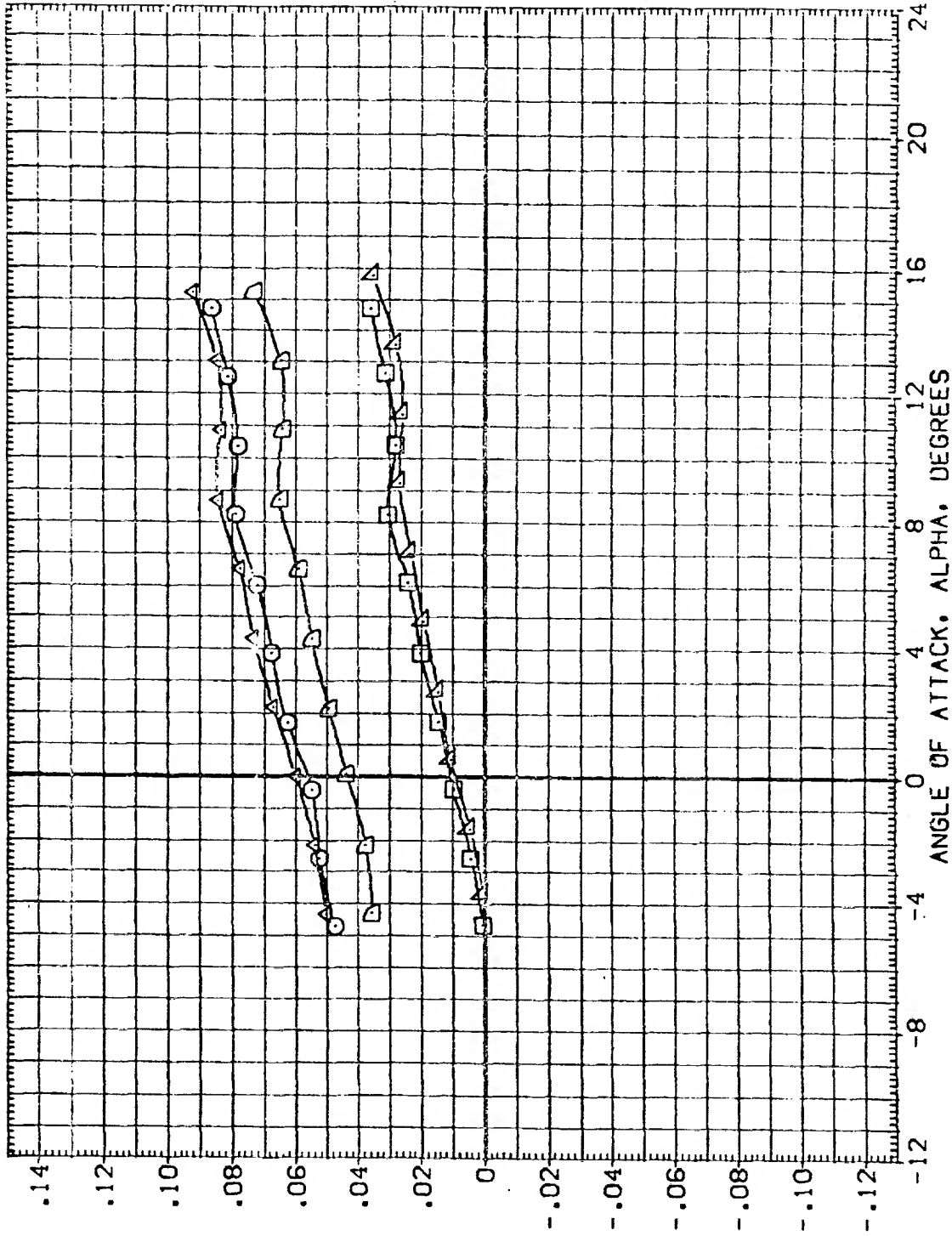


FIG. 5 - BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

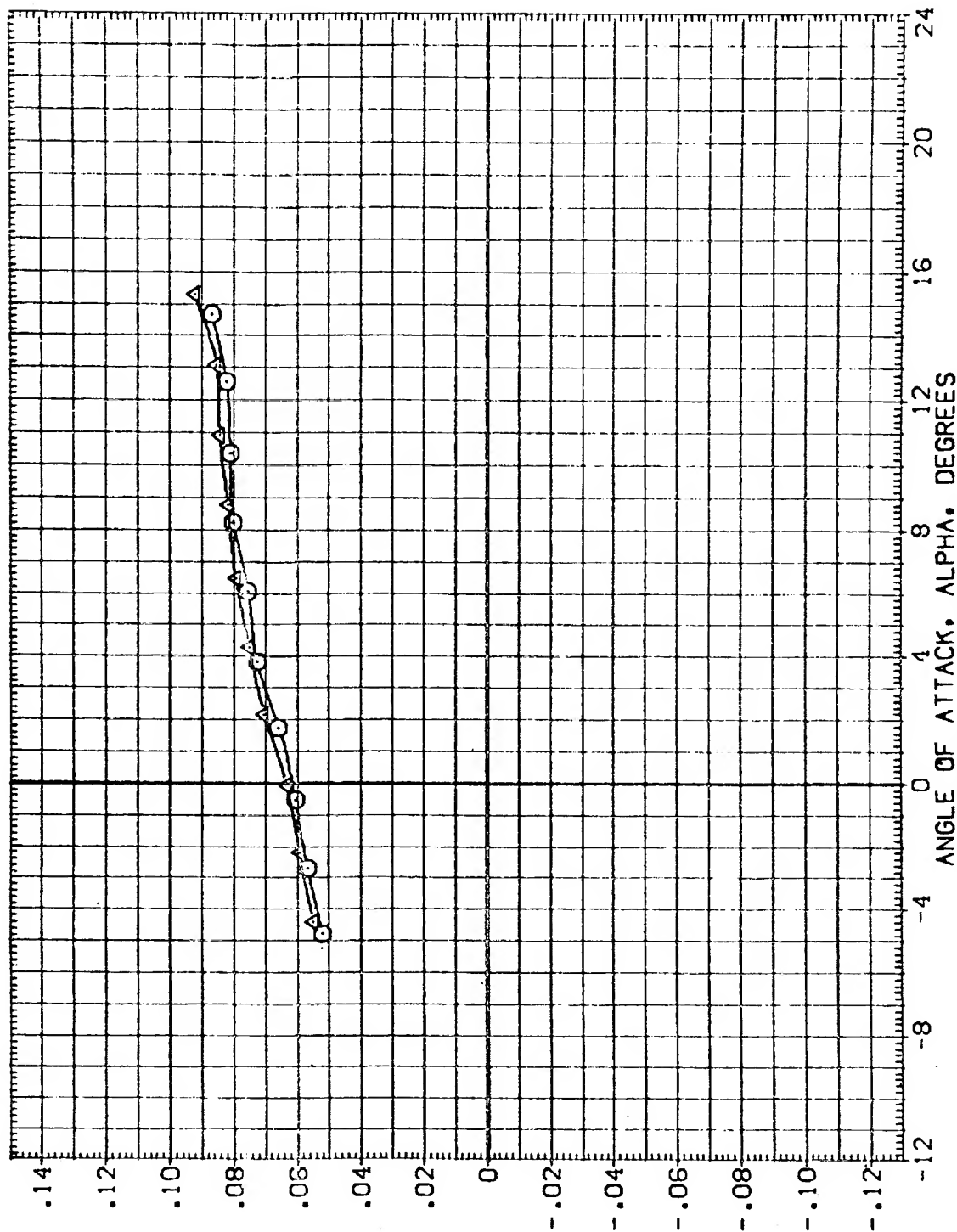


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY LAP REFERENCE INFORMATION

(GER001) ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STNG .000 .000 -11.700 SREF .6053 50.FT.

(GER005) ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STNG .000 .000 -16.300 LREF .5935 FT.

(GER006) DATA NOT AVAILABLE .000 .000 .000 BREF 1.1710 FT.

(GER012) ARC 66-709 D459 D411A-(RS V8)+STRUT .000 .000 -11.700 XMRP 12.6255 IN.

(GER014) ARC 66-709 D459 D411A-(RS V8)+STRUT .000 .000 -16.300 YMRP .0000 IN.

(GER015) ARC 66-709 D459 D411A-(RS V8)+STRUT .000 .000 .000 ZMRP -.3750 IN.

SCALE .0150

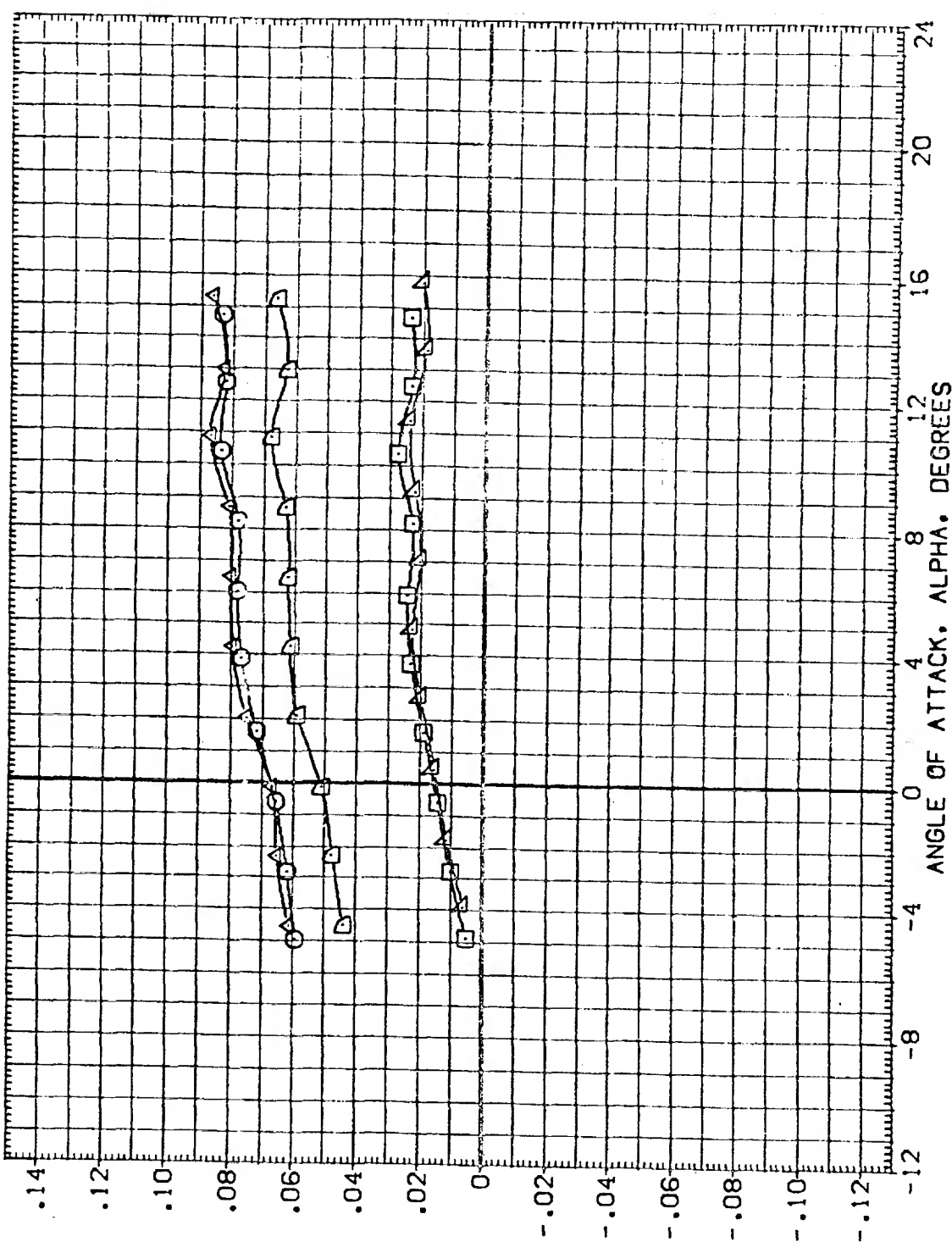


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CD)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{GER005}	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
{GER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{GER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
{GER014}	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
{GER015}	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

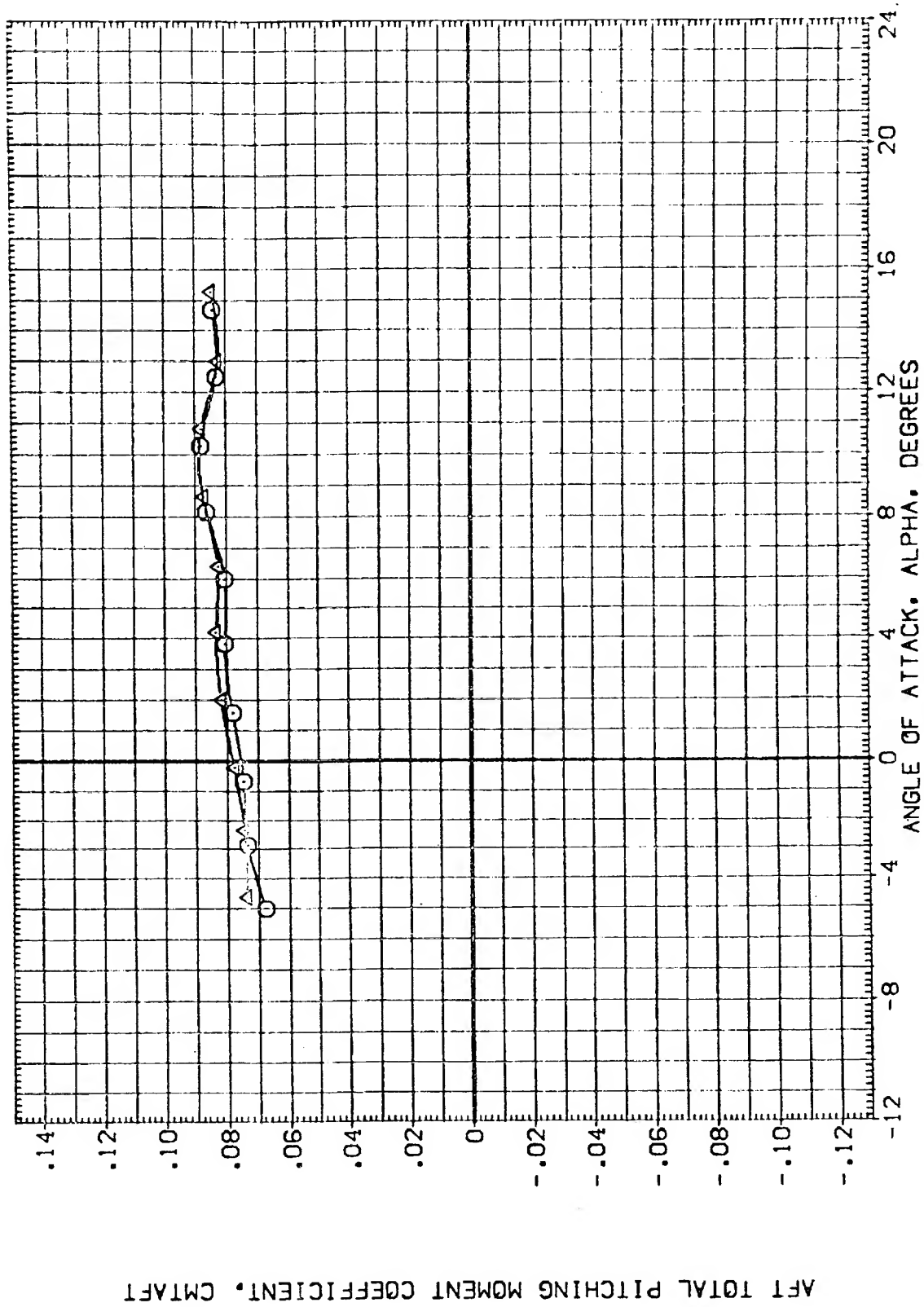


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

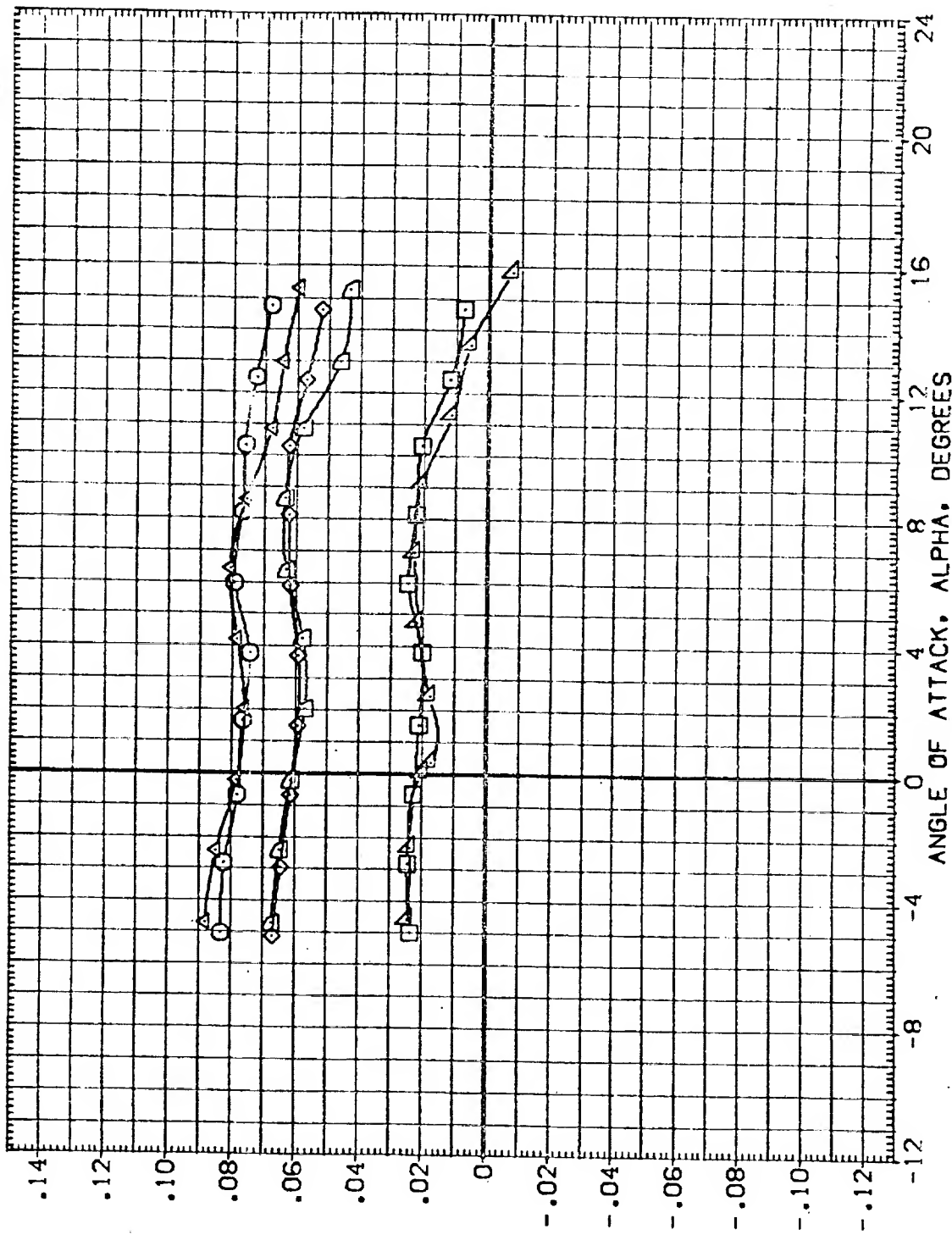


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GE0001)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 SQ.FT.
(GE0005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF 5935 FT.
(GE0006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 11710 FT.
(GE0012)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GE0014)	DATA NOT AVAILABLE	.000	.000	.000	YMRP .0000 IN.
(GE0015)	DATA NOT AVAILABLE	.000	.000	16.300	ZMRP -.3750 IN.
		.000	.000	.000	SCALE .0150

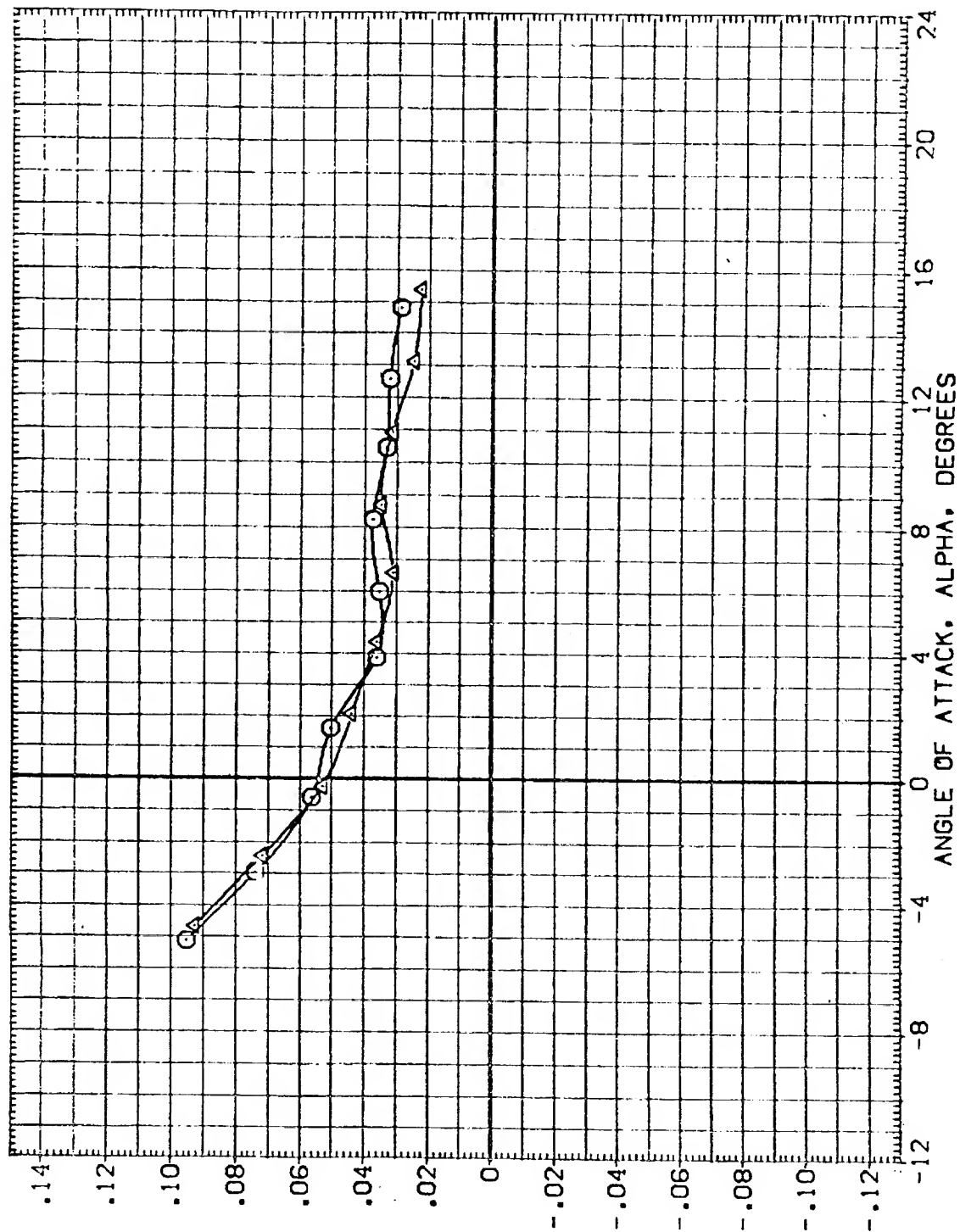


FIG. 5. BODY FLAP EFFECTS DURING TARE PITCH RUNS

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(G)MACH = .95
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

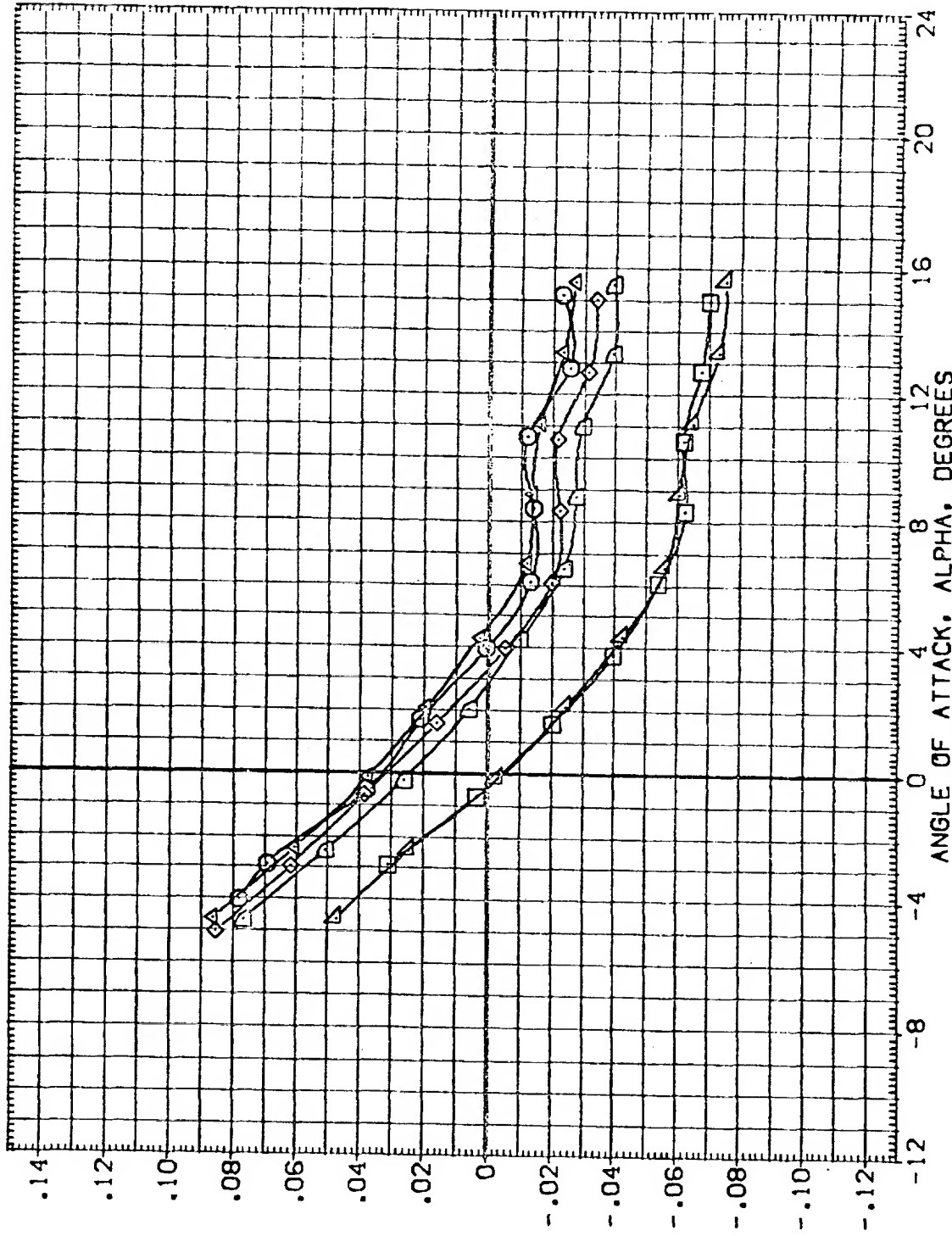
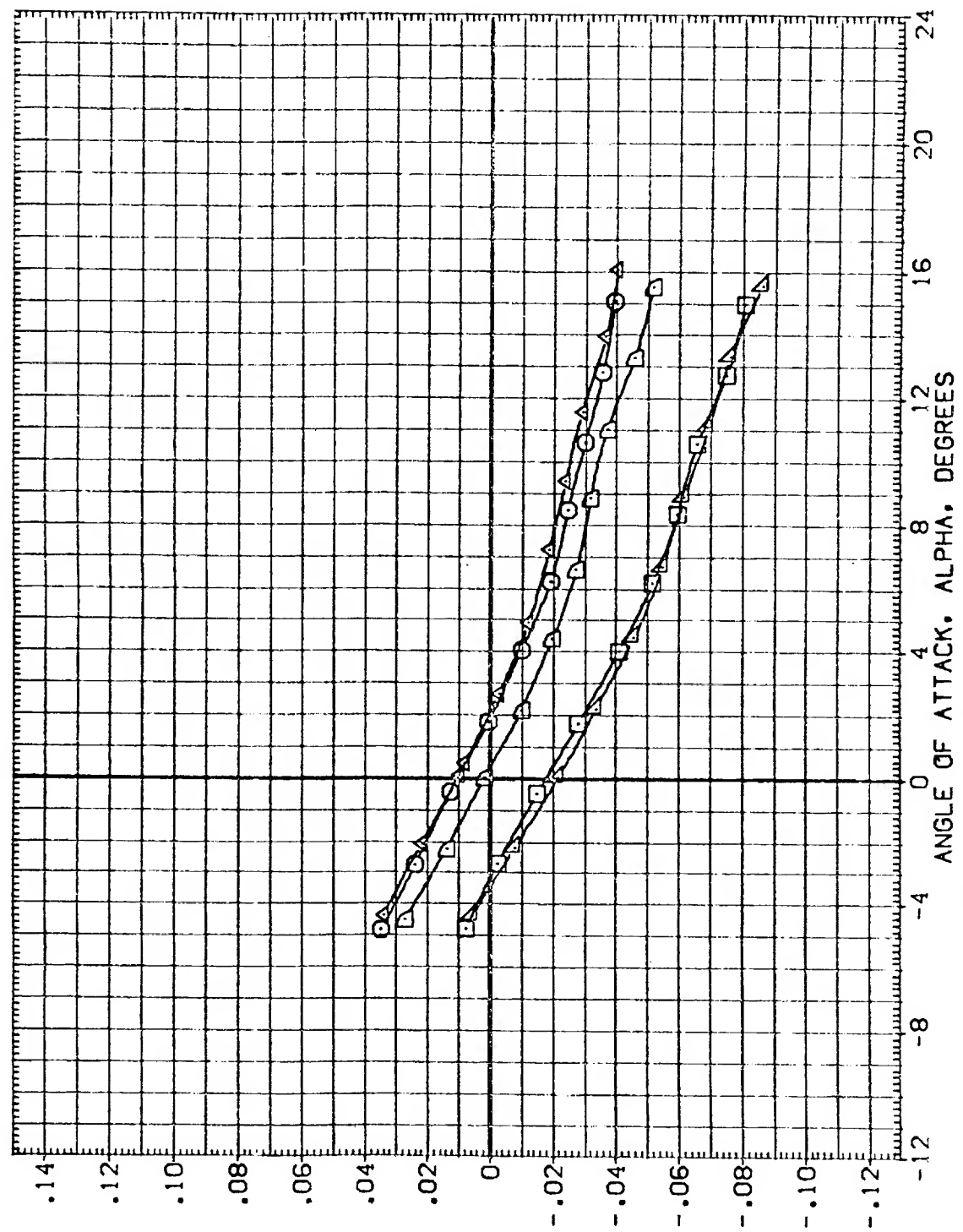


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP
 (GER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 .000 -11.700
 (GER005) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG .000 .000 16.300
 (GER006) DATA NOT AVAILABLE .000 .000 .000
 (GER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 -11.700
 (GER014) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 16.300
 (GER015) ARC 66-709 0A59 0A11A-(RS V81)+STRUT .000 .000 .000

REFERENCE INFORMATION
 SREF 6053 SQ.FT.
 LREF 5935 FT.
 BREF 1.1710 IN.
 YMRP 12.6255 IN.
 ZMRP .0000 IN.
 SCALE -.3750 IN.
 .0150



AFT TOTAL PITCHING MOMENT COEFFICIENT, CM/TAFT

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE -.0150

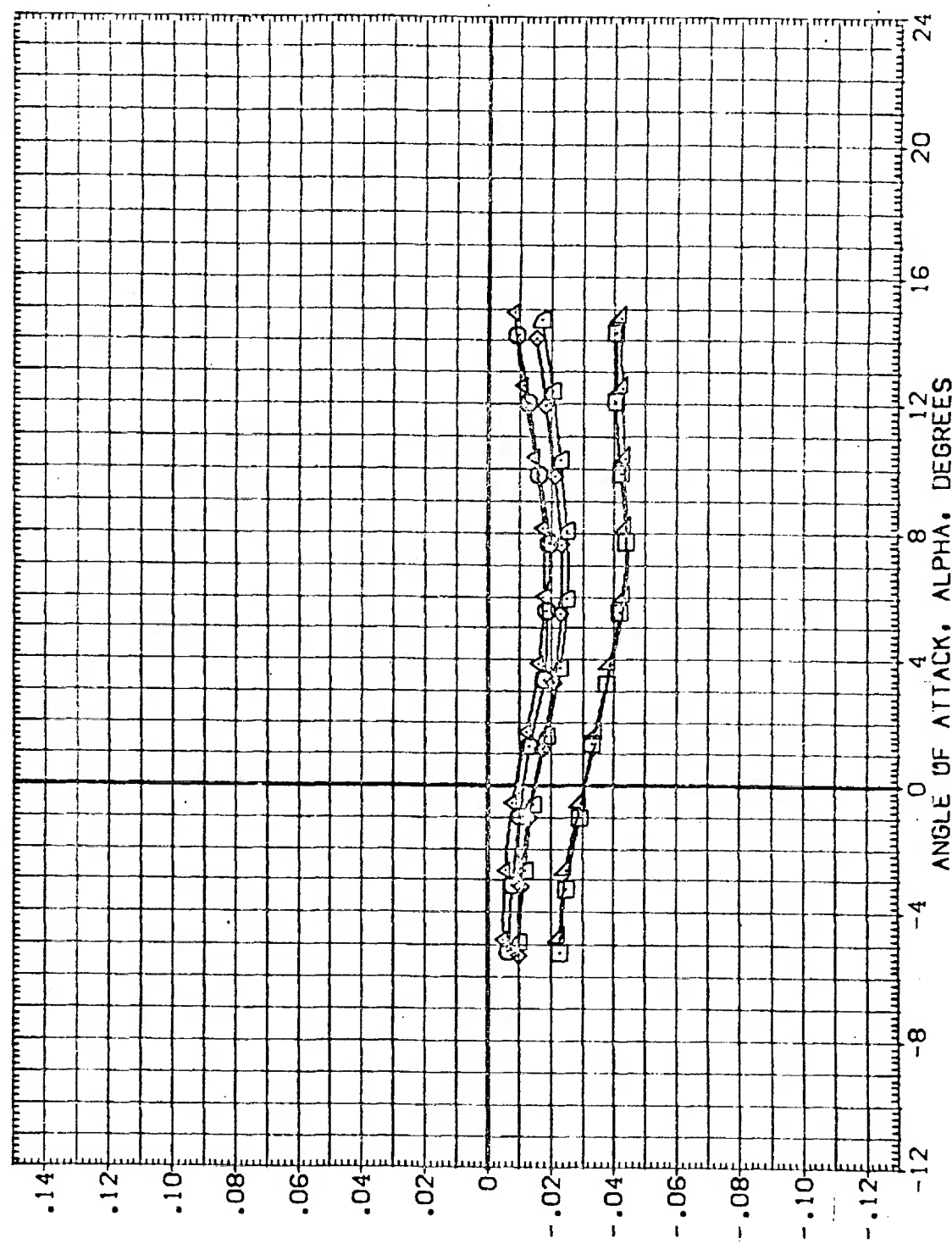


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

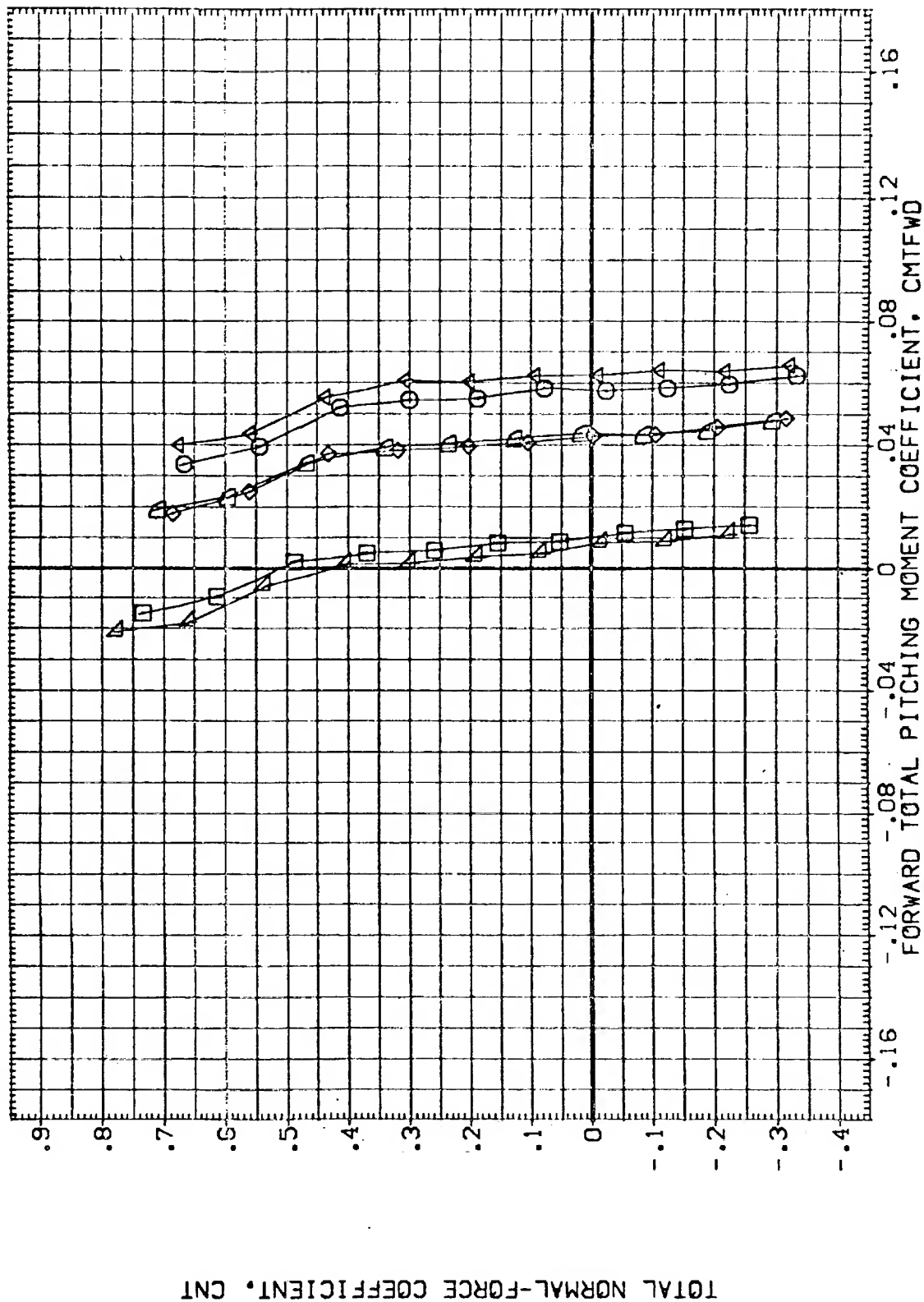


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 OAI1A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-11.700	SREF -5053 50.FT.
(GER005)	ARC 66-709 OAS9 OAI1A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-16.300	LREF -5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 OAI1A-(RS V81)-STRUT	.000	.000	-16.300	XMRP 12.6255 IN.
(GER014)	ARC 66-709 OAS9 OAI1A-(RS V81)-STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 OAS9 OAI1A-(RS V81)-STRUT	.000	.000	-16.300	ZMRP -.3750 IN.
					SCALE .0150

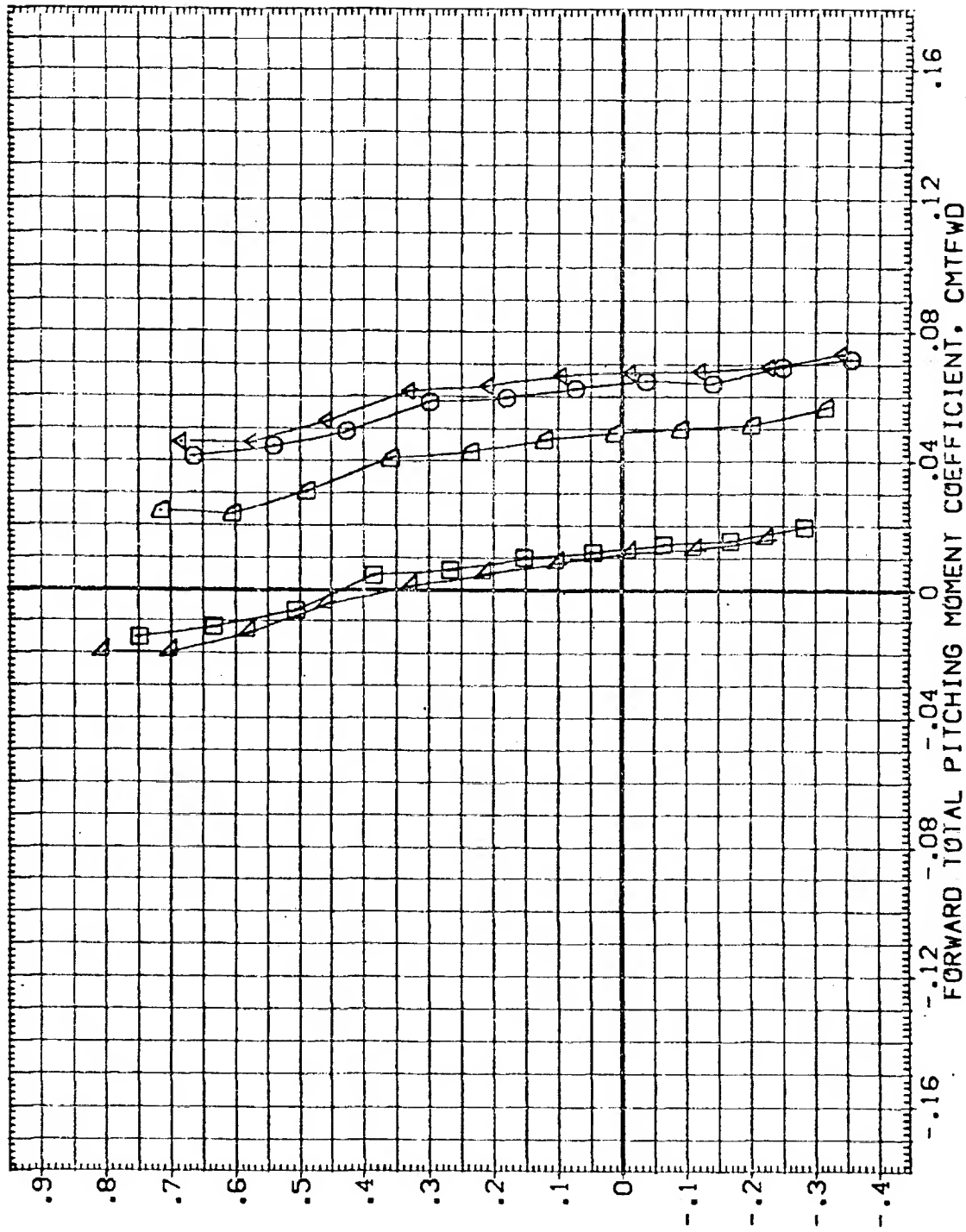


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

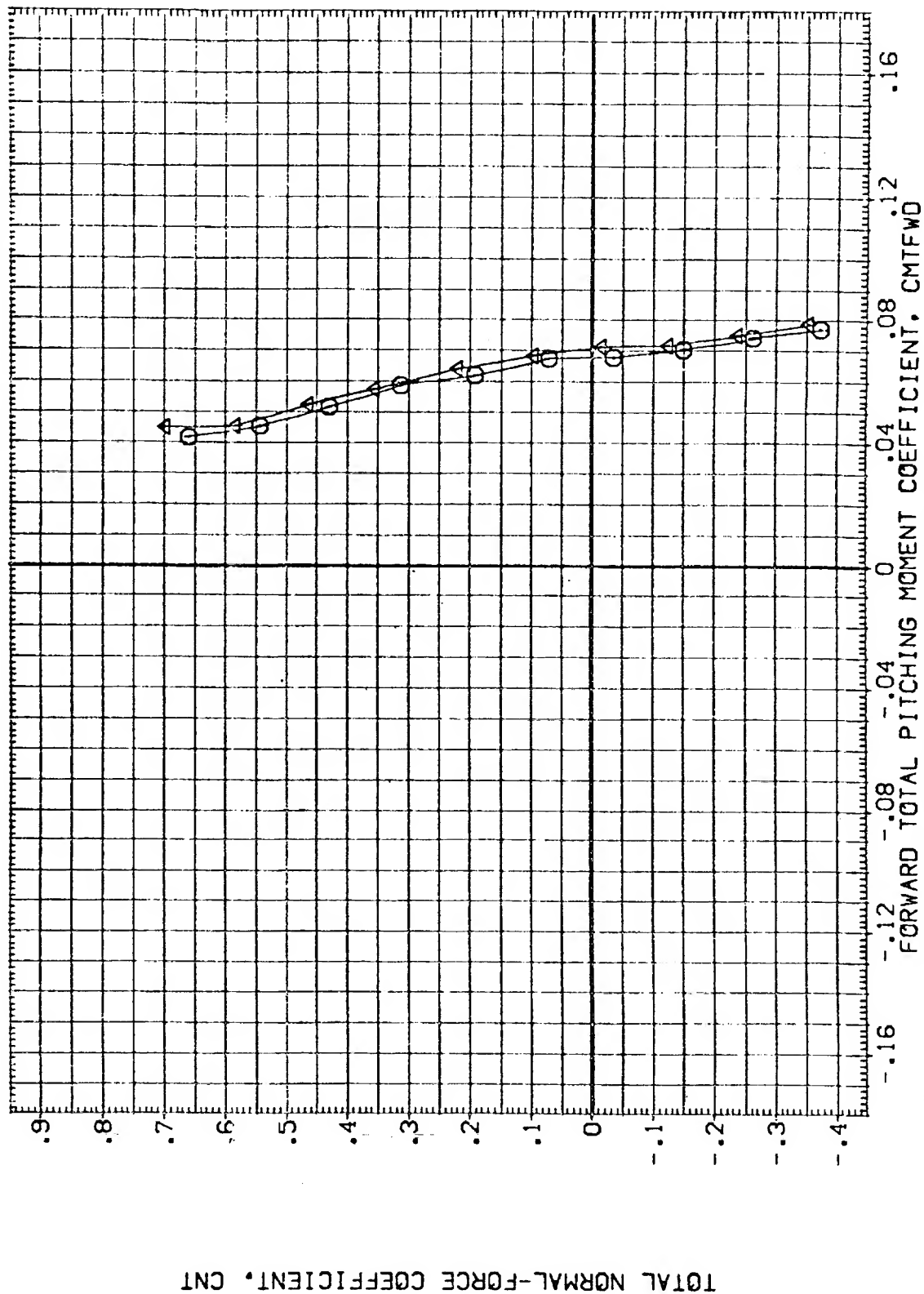


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QJM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+QJM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

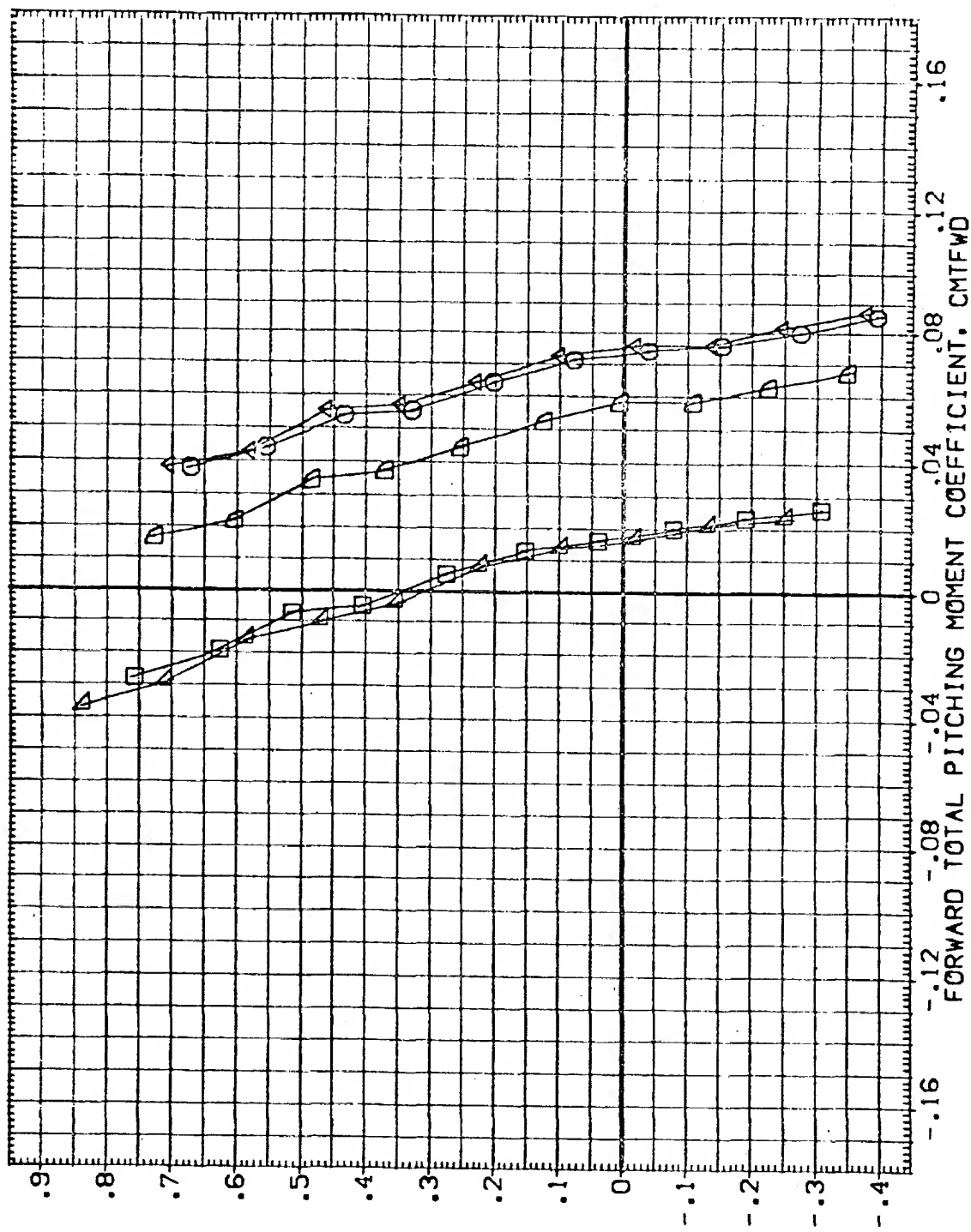


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

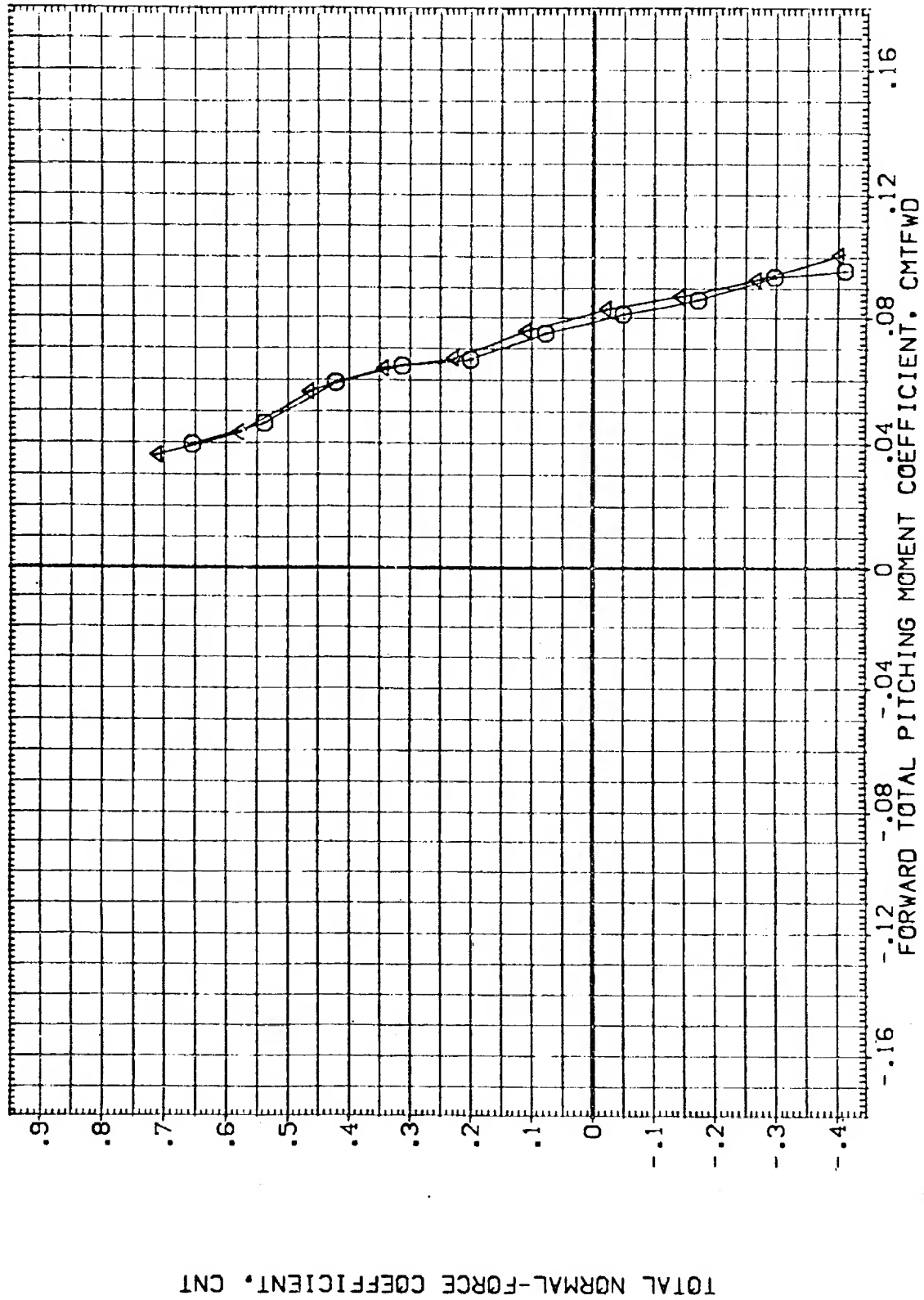


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 DA59 DA11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER005]	ARC 66-709 DA59 DA11A-(N24 RS V81+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
[GER006]	ARC 66-709 DA59 DA11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	BREF 1.1710 IN.
[GER012]	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
[GER014]	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	.000	ZMRP .0000 IN.
[GER015]	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	.000	SCALE .0150

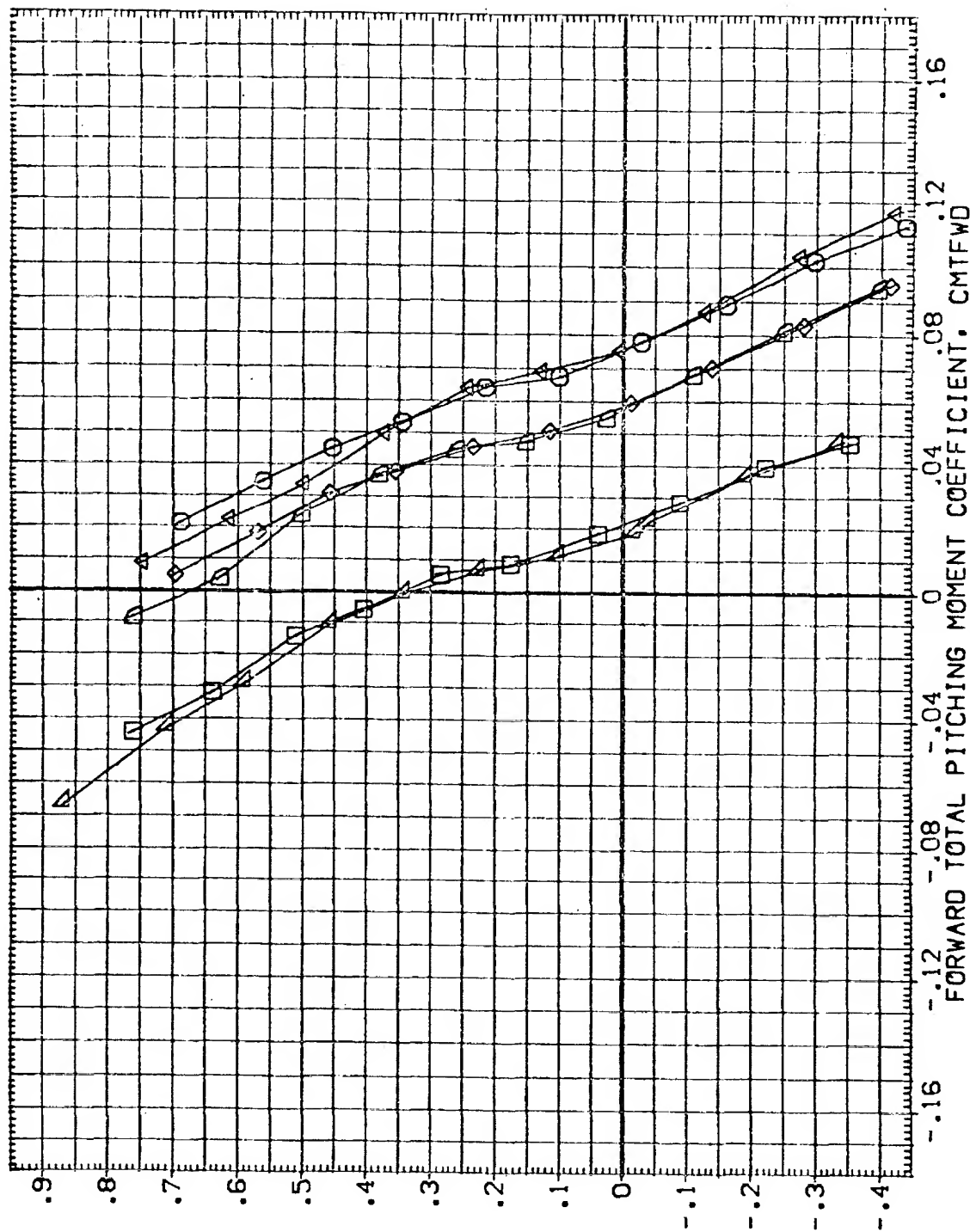


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOX LAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

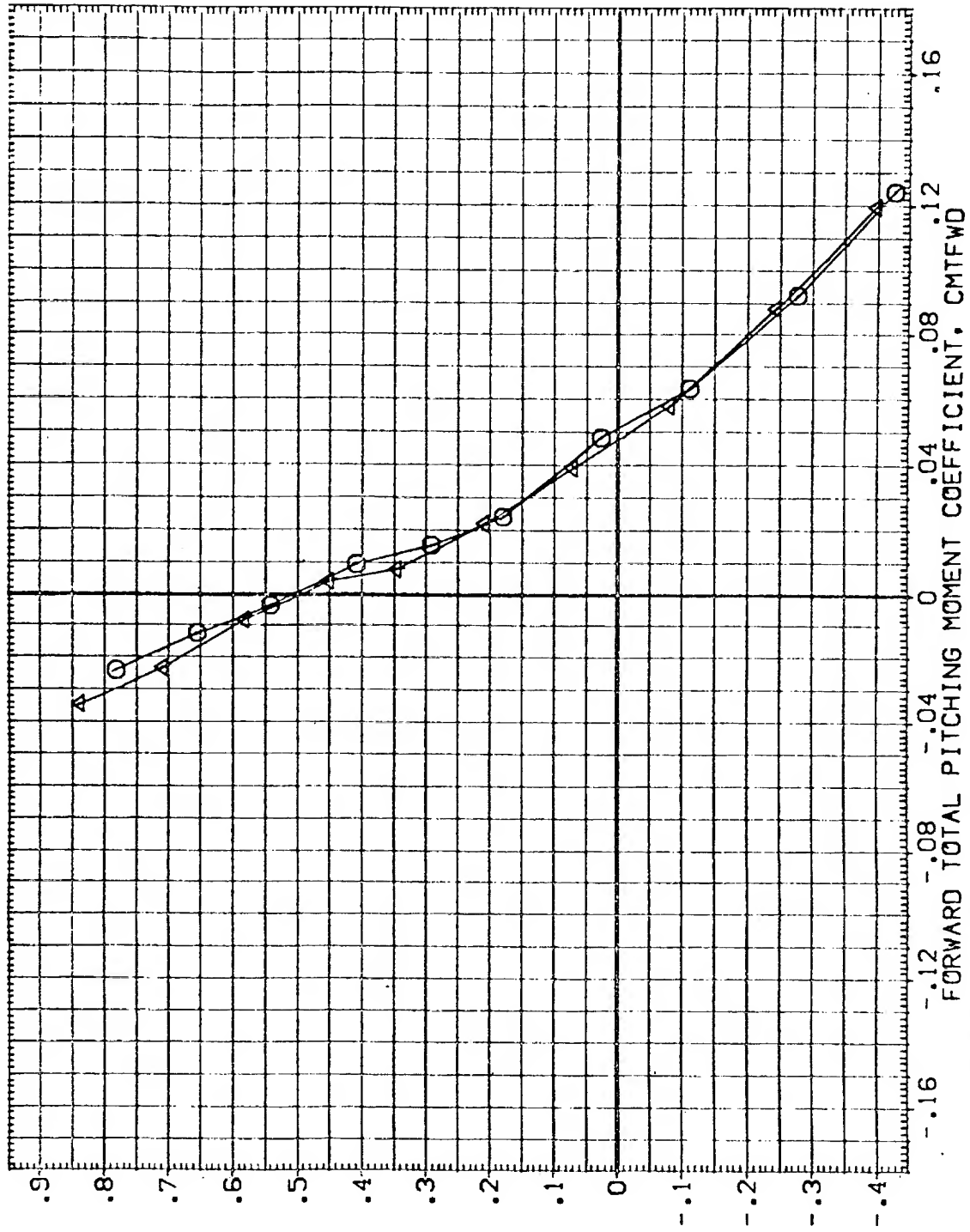


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-16.300	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

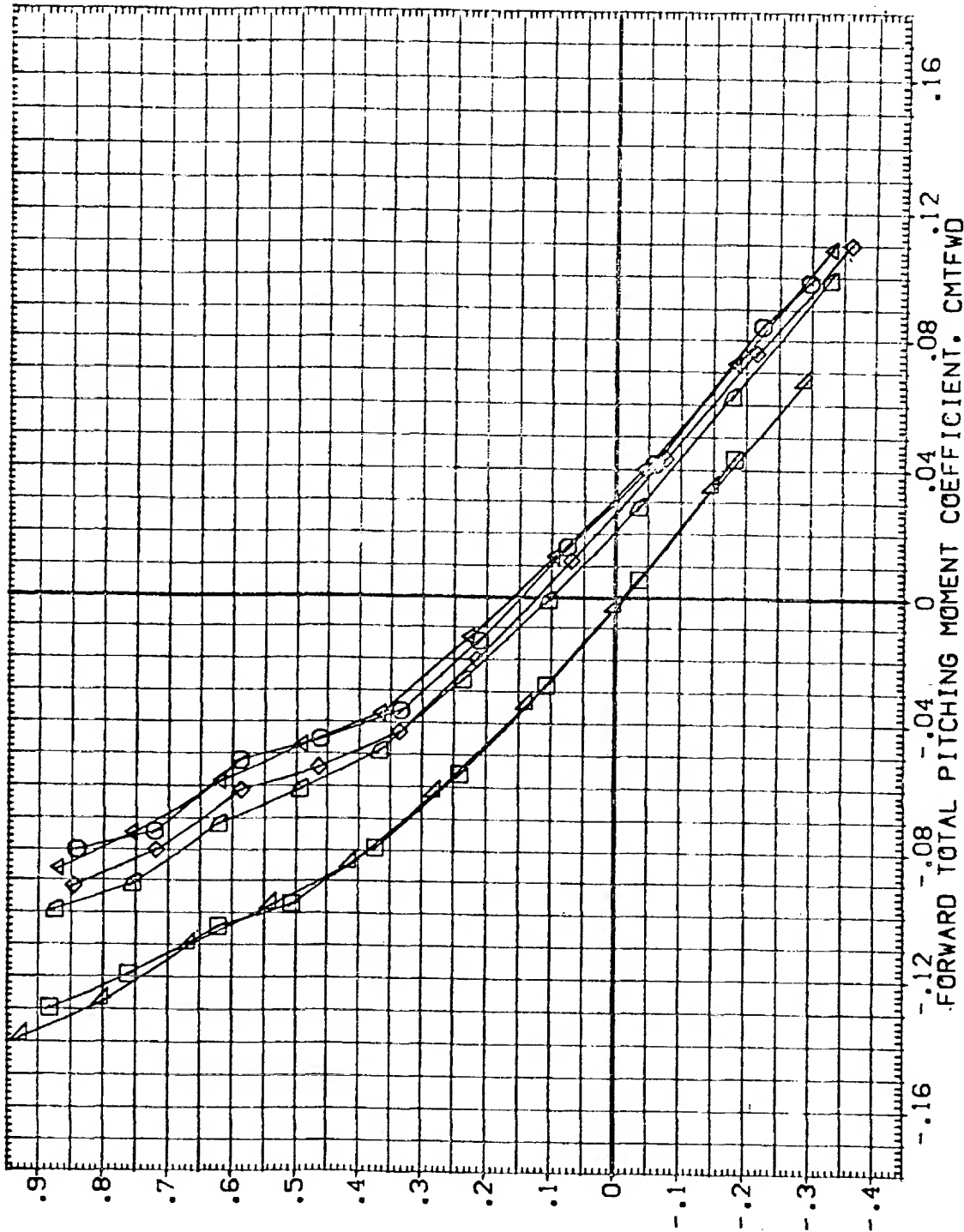


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY FLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DASS 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DASS 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

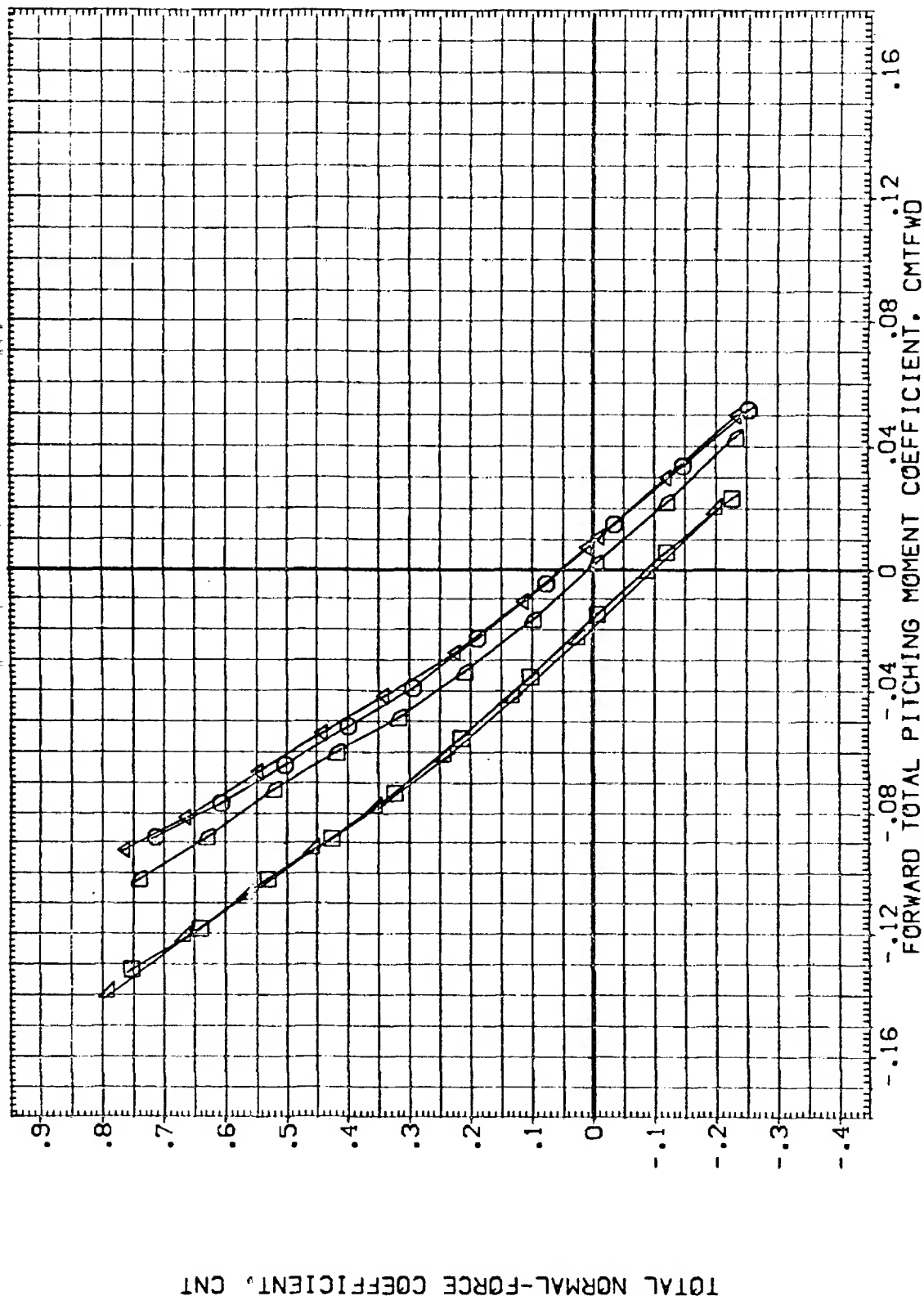


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5375 FT.
(GER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	SCALE .0150

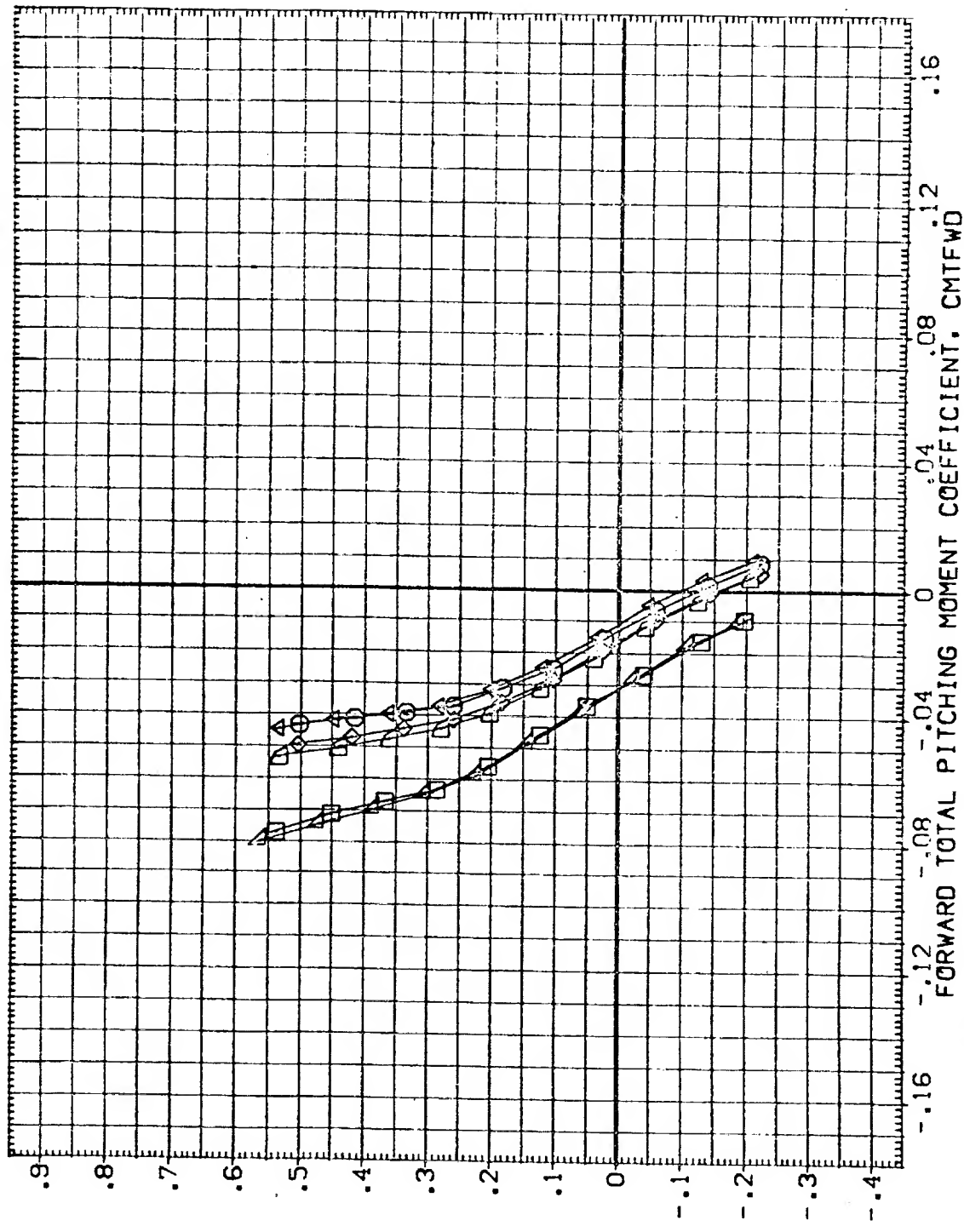


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

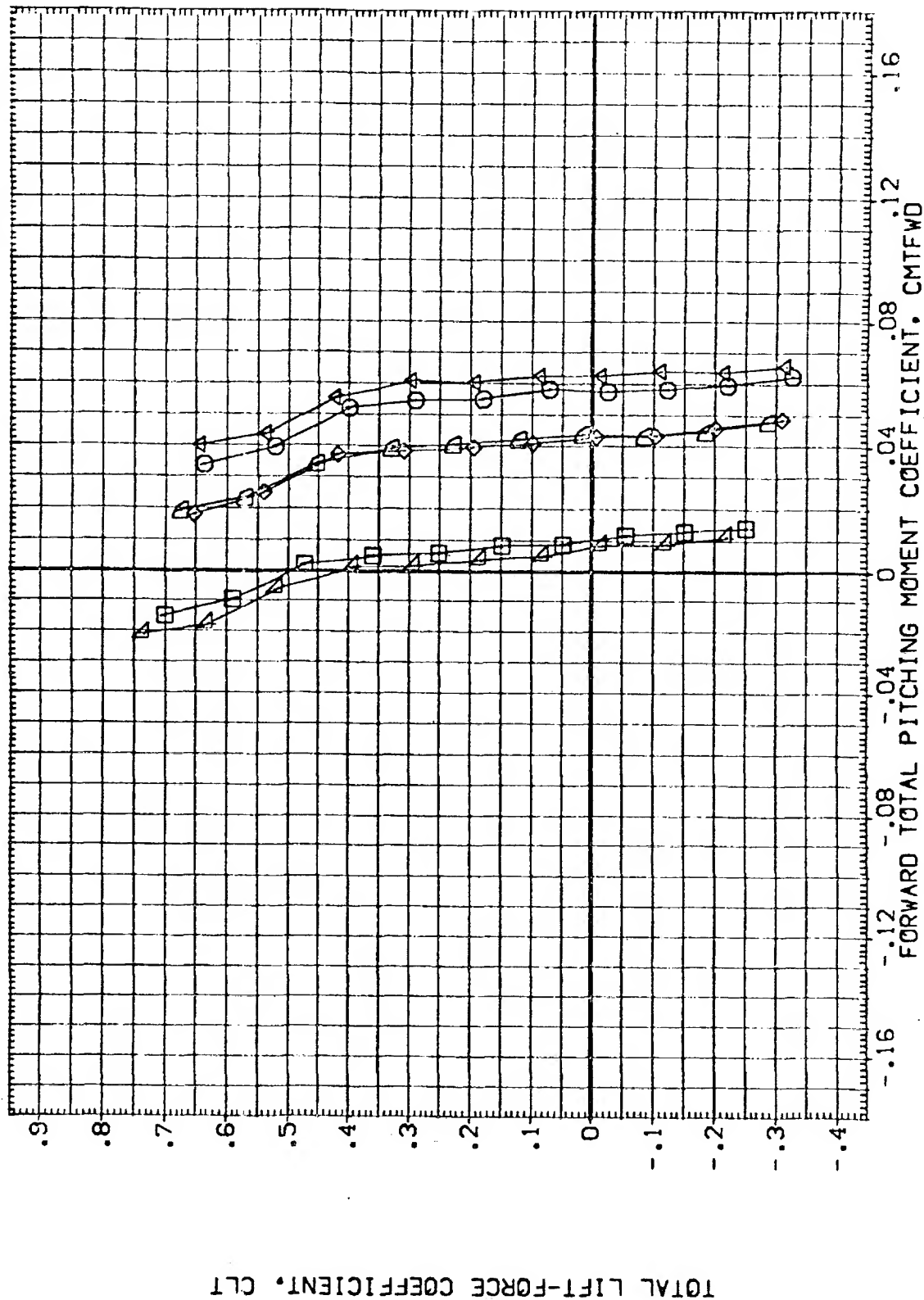


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

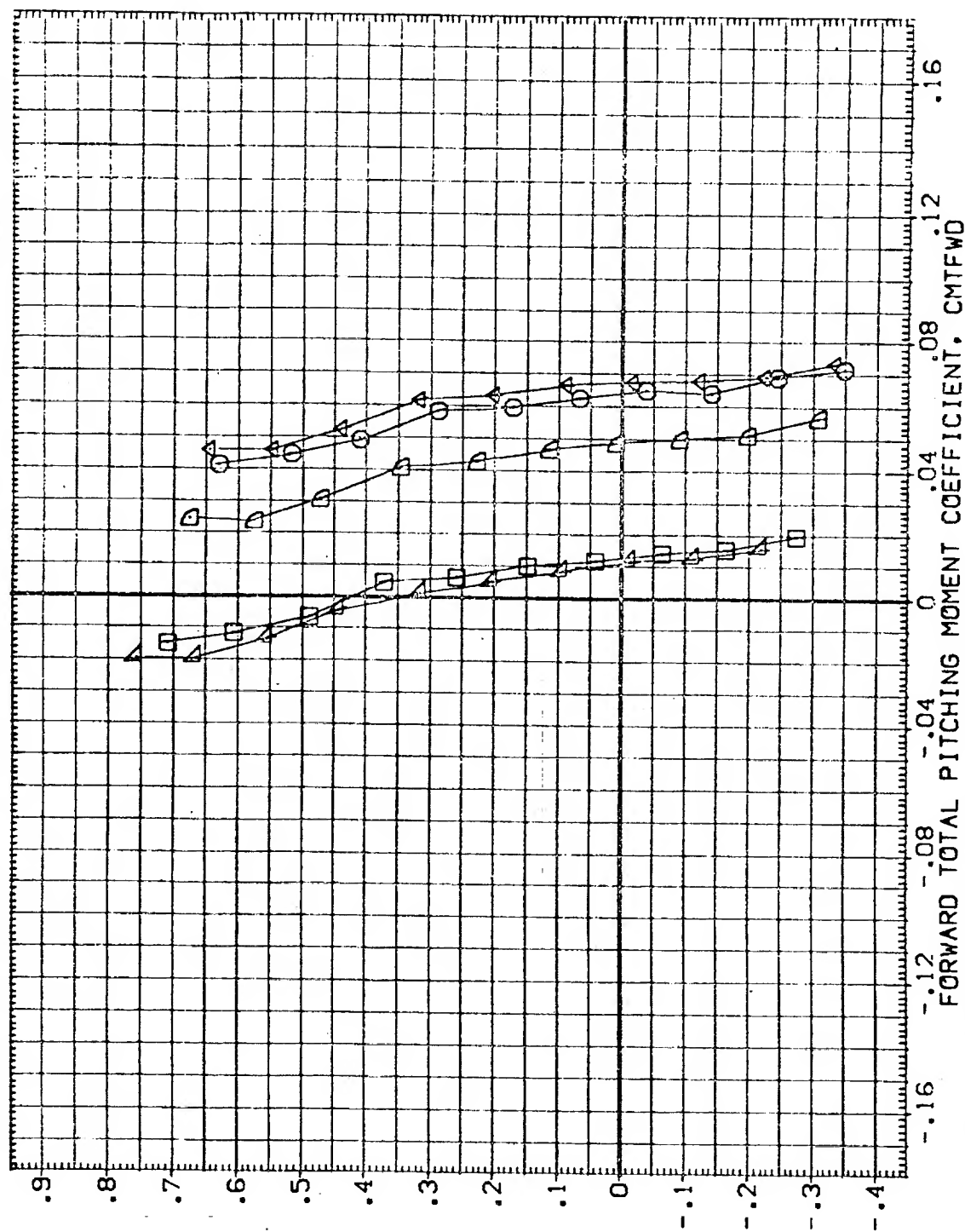


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 CAS9 0A11A-(N24 R5 V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 CAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

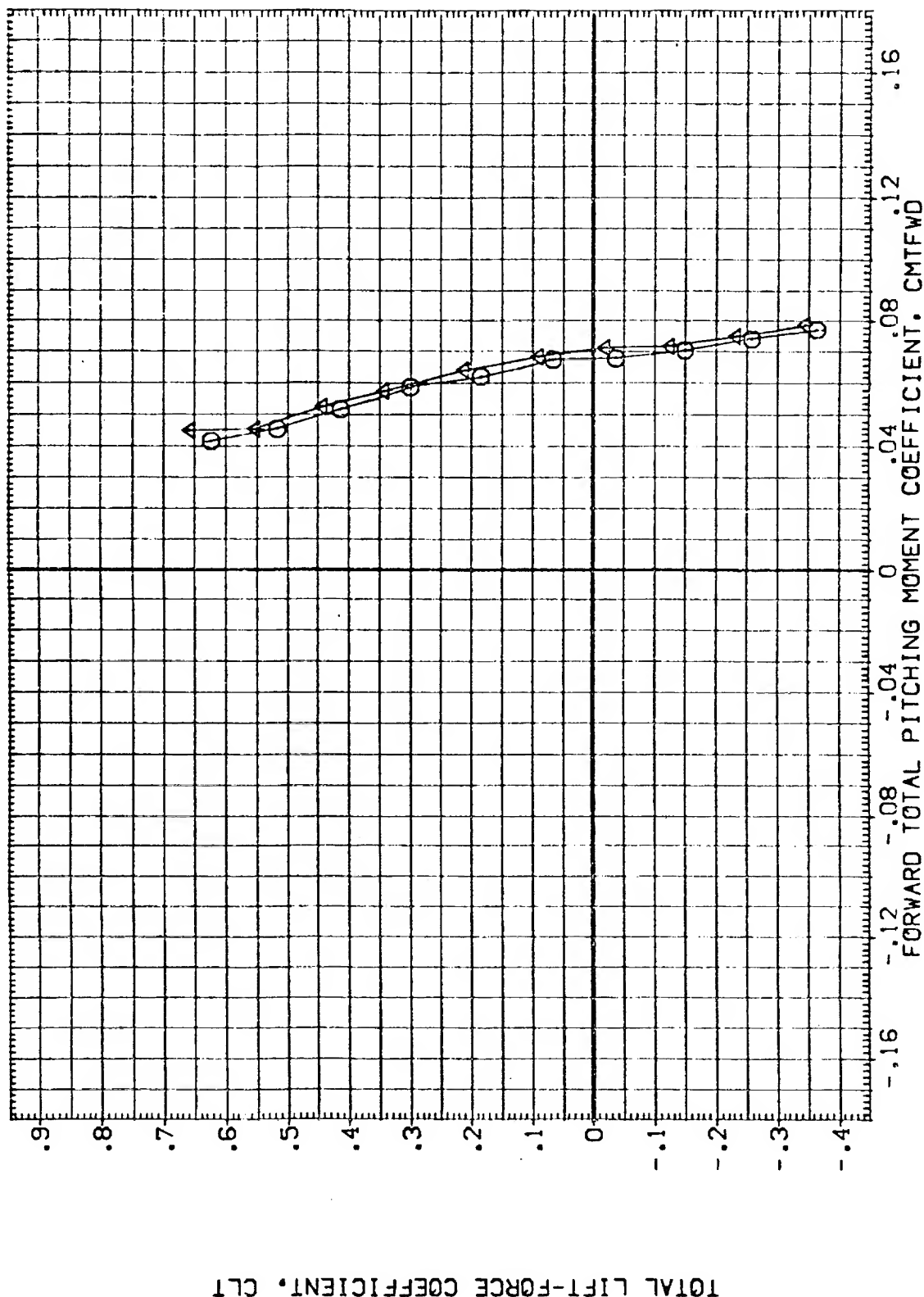


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

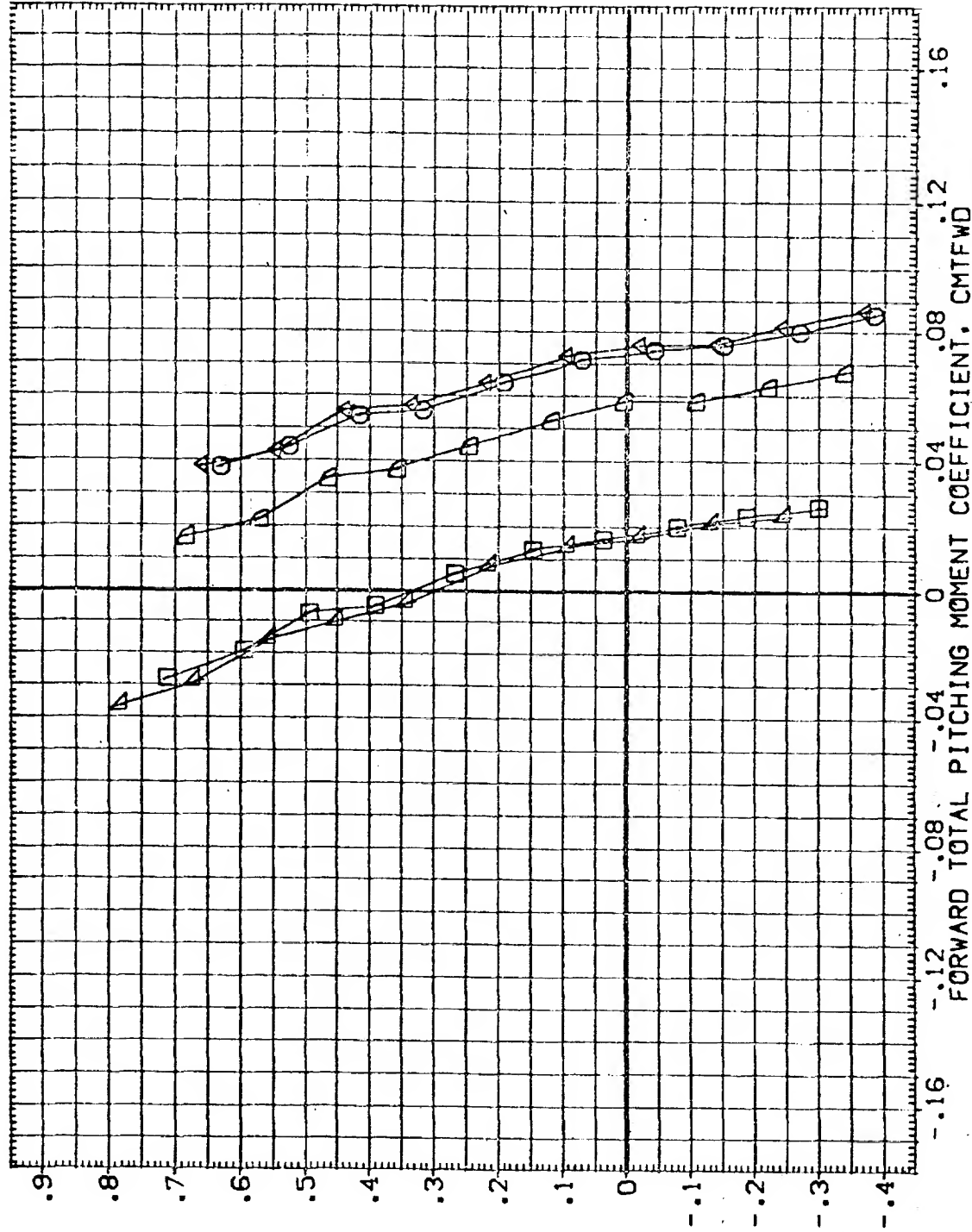


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF 50.53 SO.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF 59.35 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

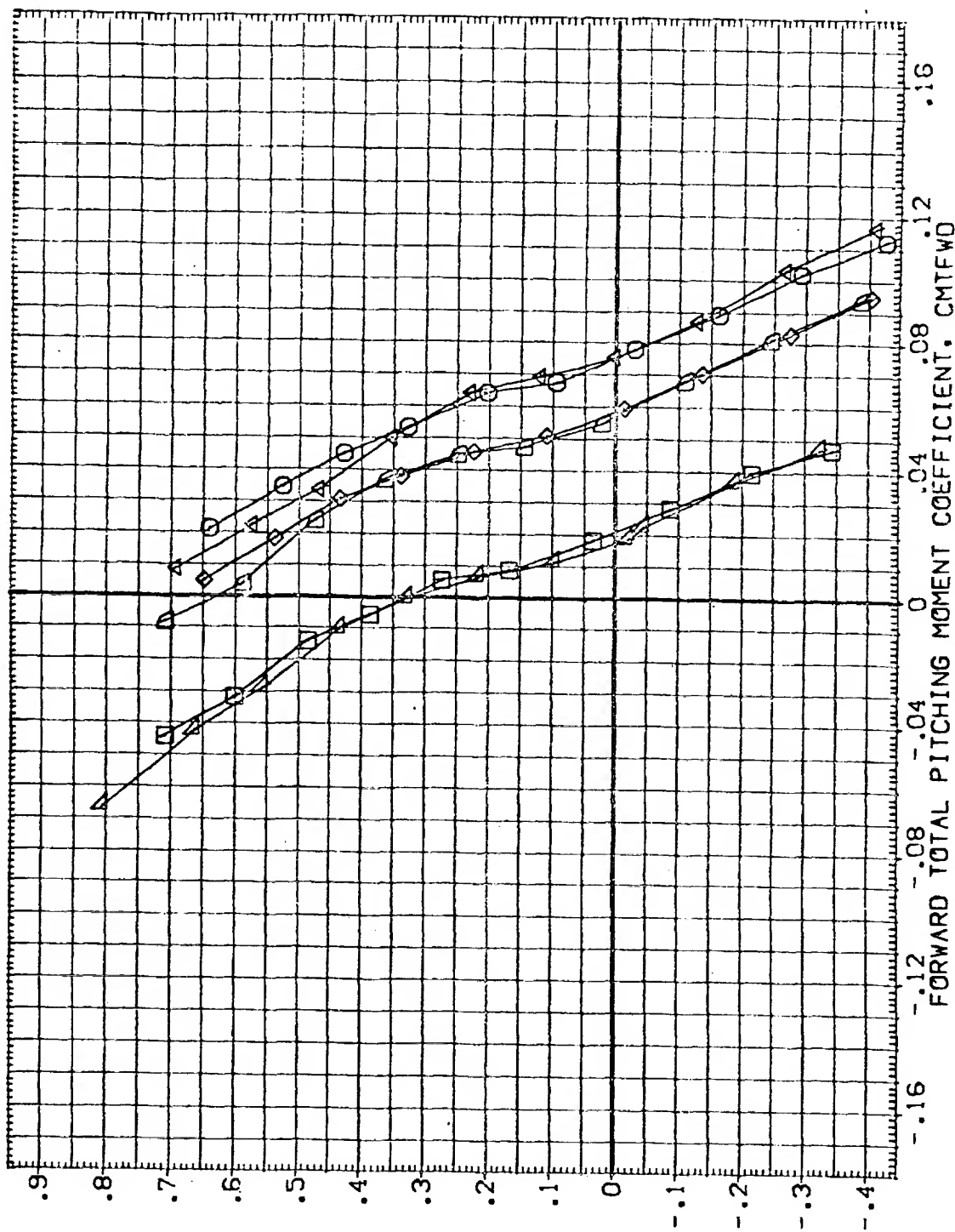


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL
 (GER001)
 (GER005)
 (GER006)
 (GER012)
 (GER014)
 (GER015)

CONFIGURATION DESCRIPTION
 ARC 66-709 DASS 0A11A-(N24 RS V8)+STRUT+DUM STNG
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE
 ARC 66-709 DASS 0A11A-(RS V8)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA
 .000
 .000
 .000
 .000
 .000
 .000

ELEVON
 .000
 .000
 .000
 .000
 .000
 .000

BOFLAP
 -11.700
 16.300
 .000
 -11.700
 16.300
 .000

SCALE
 .0150

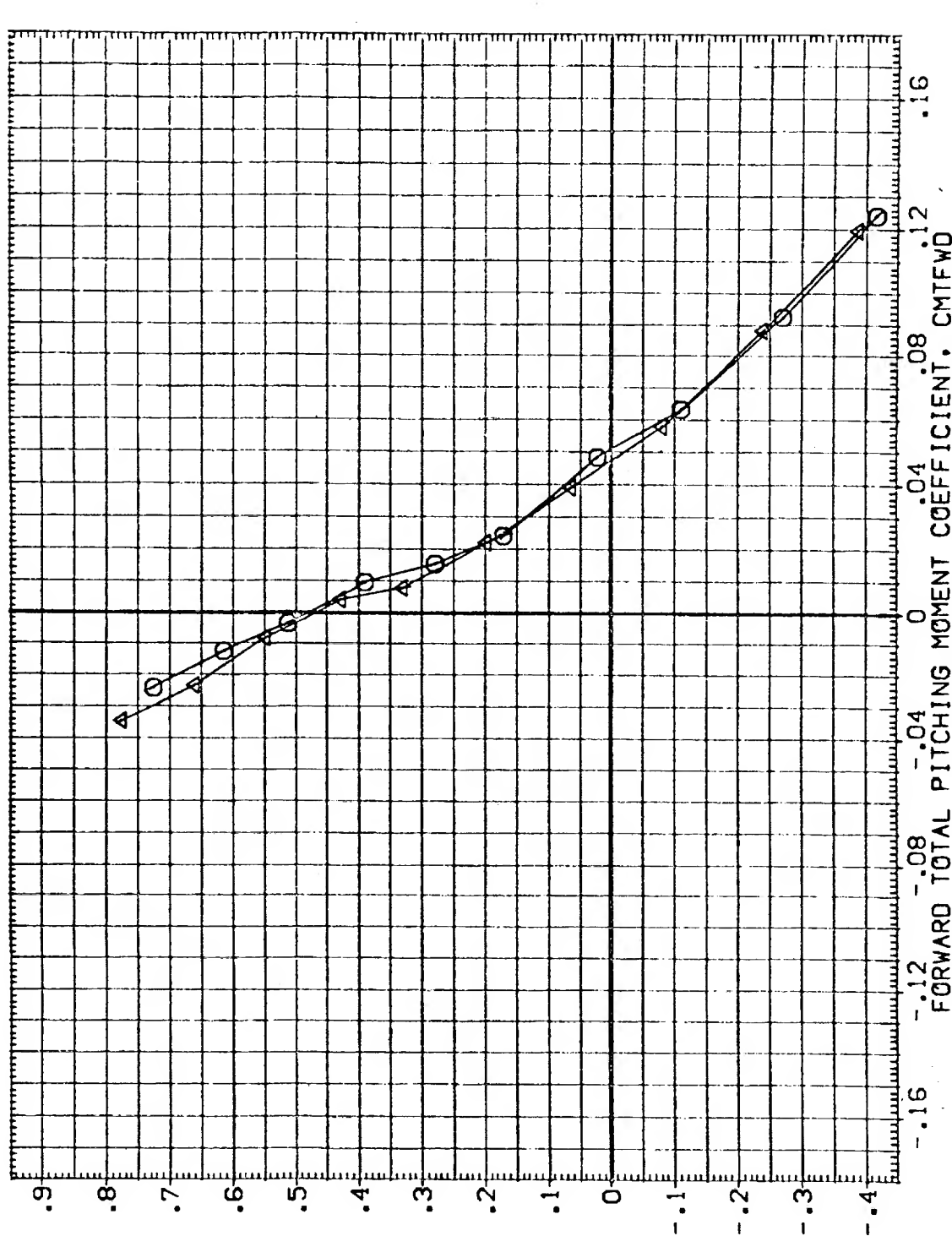


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

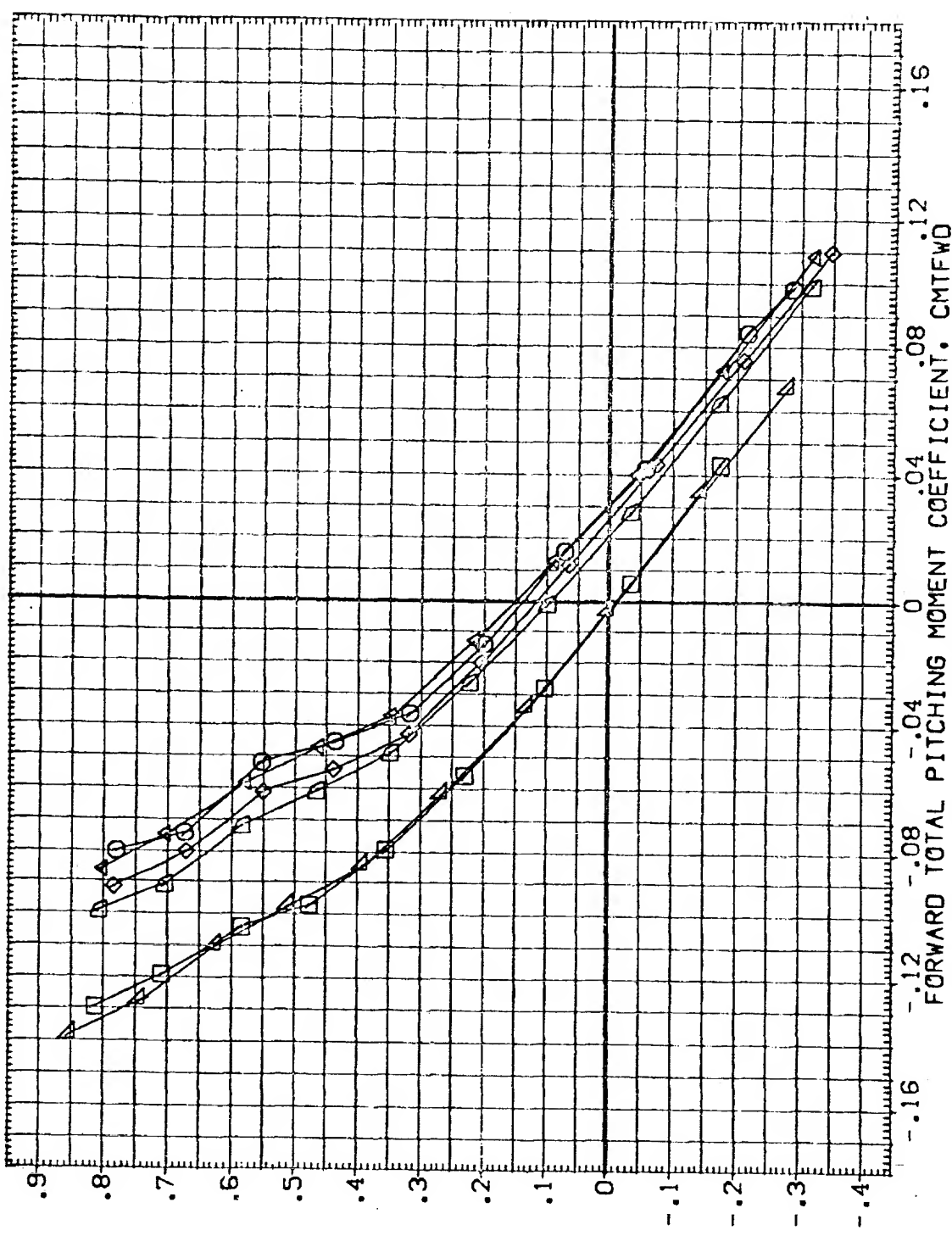


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

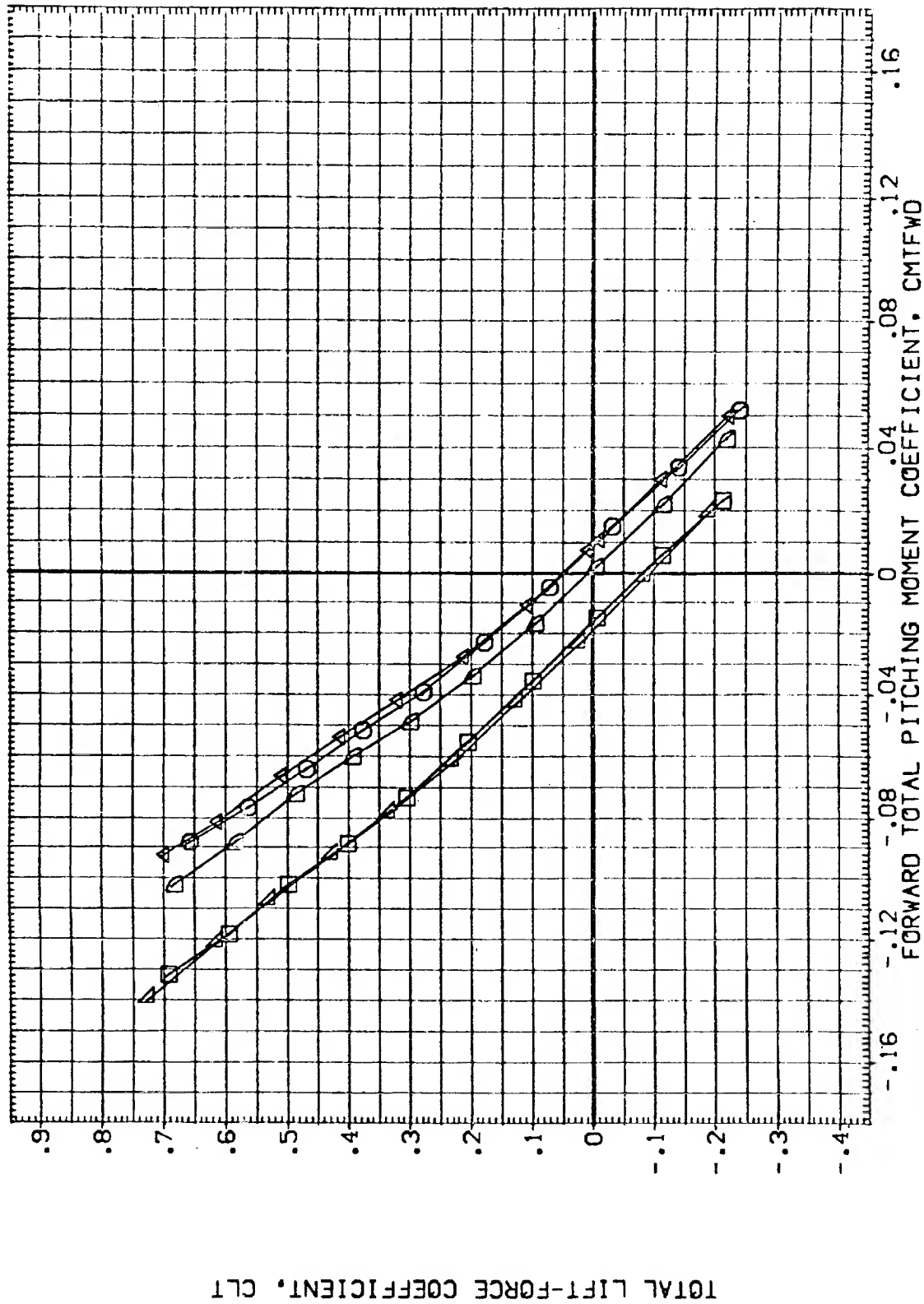
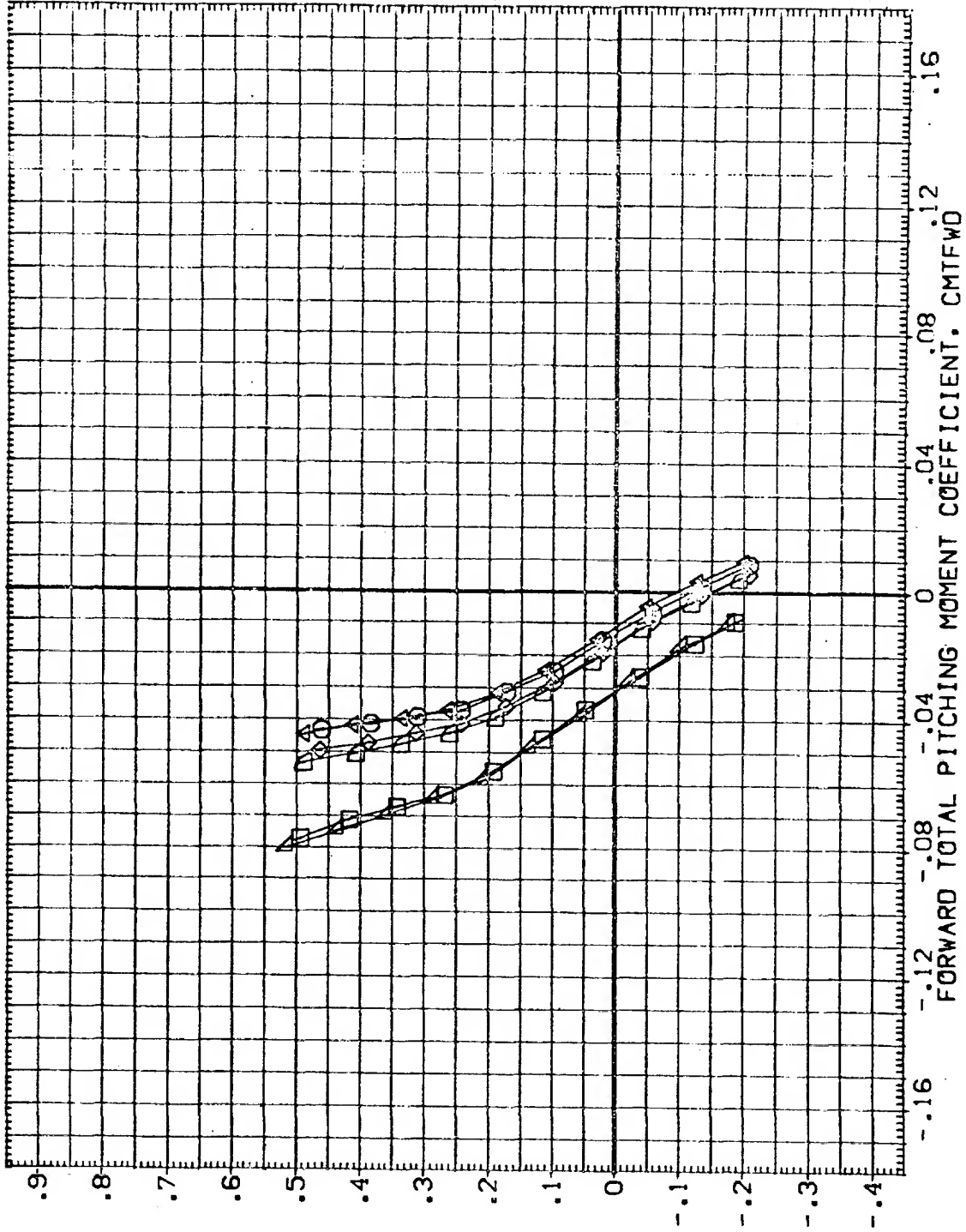


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL

(GER001)
 (GER005)
 (GER006)
 (GER012)
 (GER014)
 (GER015)



```
(J)MACH = 2.00
```


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

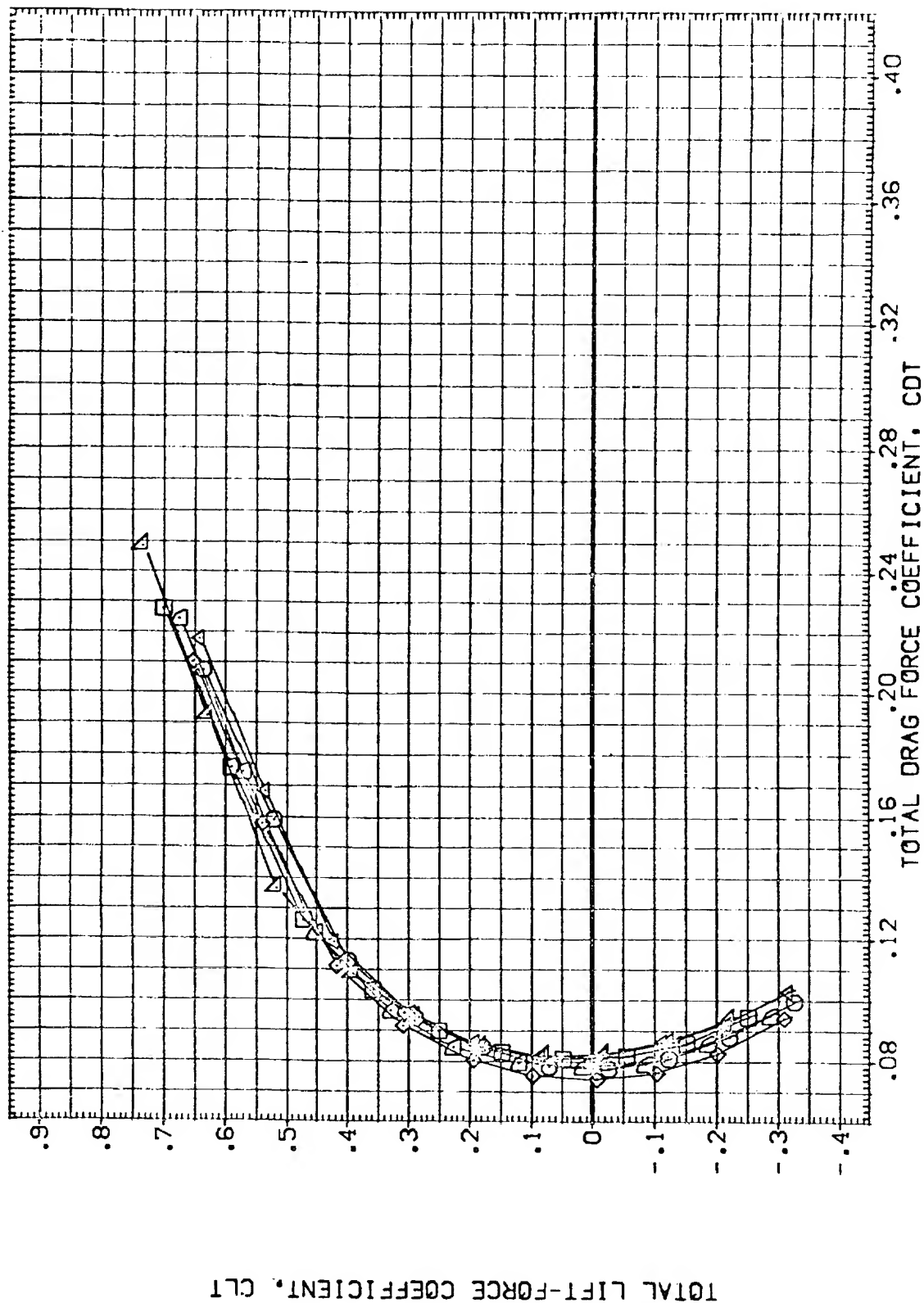


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

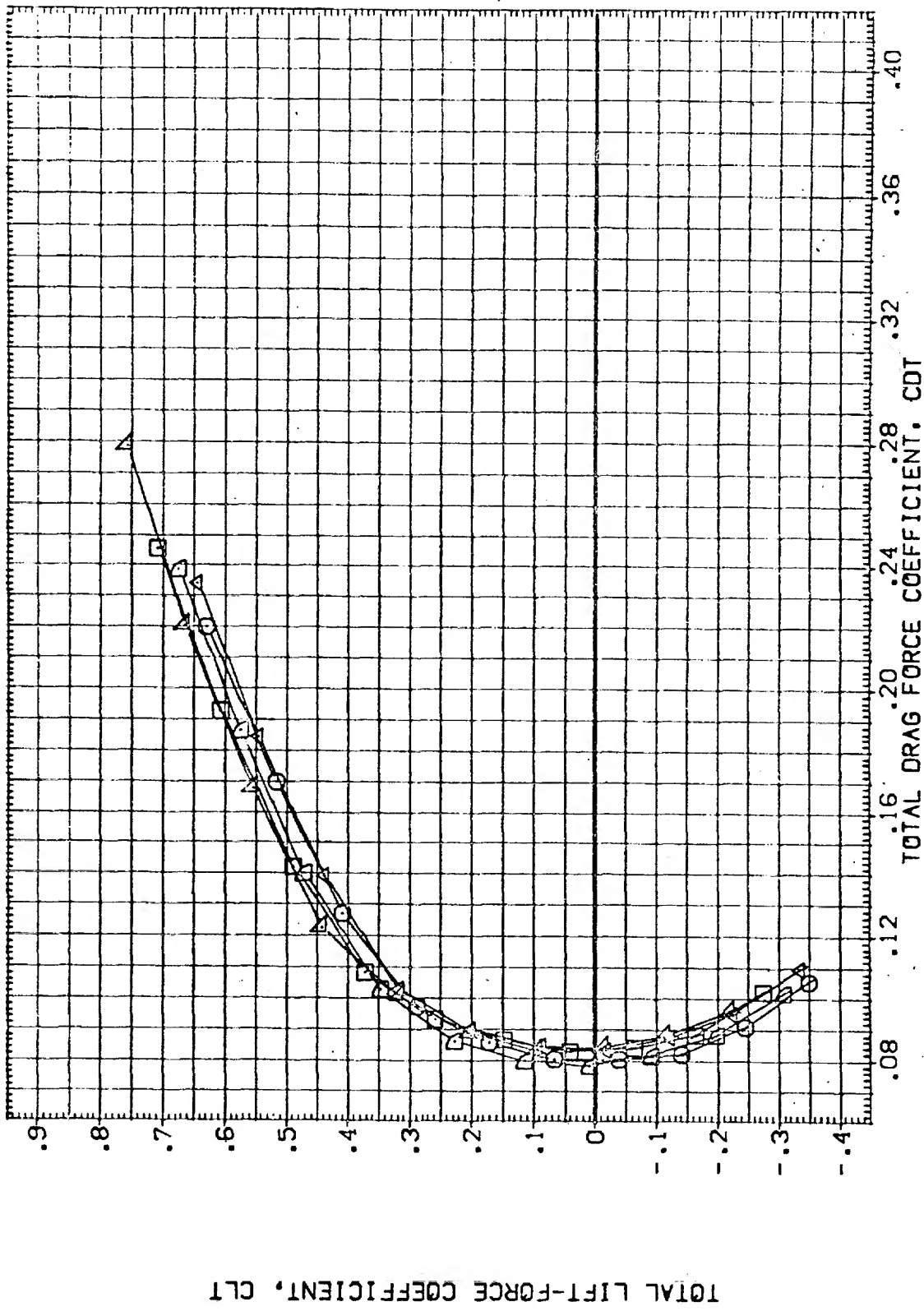


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001) ARC 66-709 QAS9 Q111A-(N24 RS V81)-STRUT+DUM STAG

(GER005) DATA NOT AVAILABLE

(GER006) DATA NOT AVAILABLE

(GER012) ARC 66-709 QAS9 Q111A-(RS V81)-STRUT

(GER014) DATA NOT AVAILABLE

(GER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF 50.53 50. FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

ZMRP .0000 IN.

SCALE -.3750 IN.

 .0150

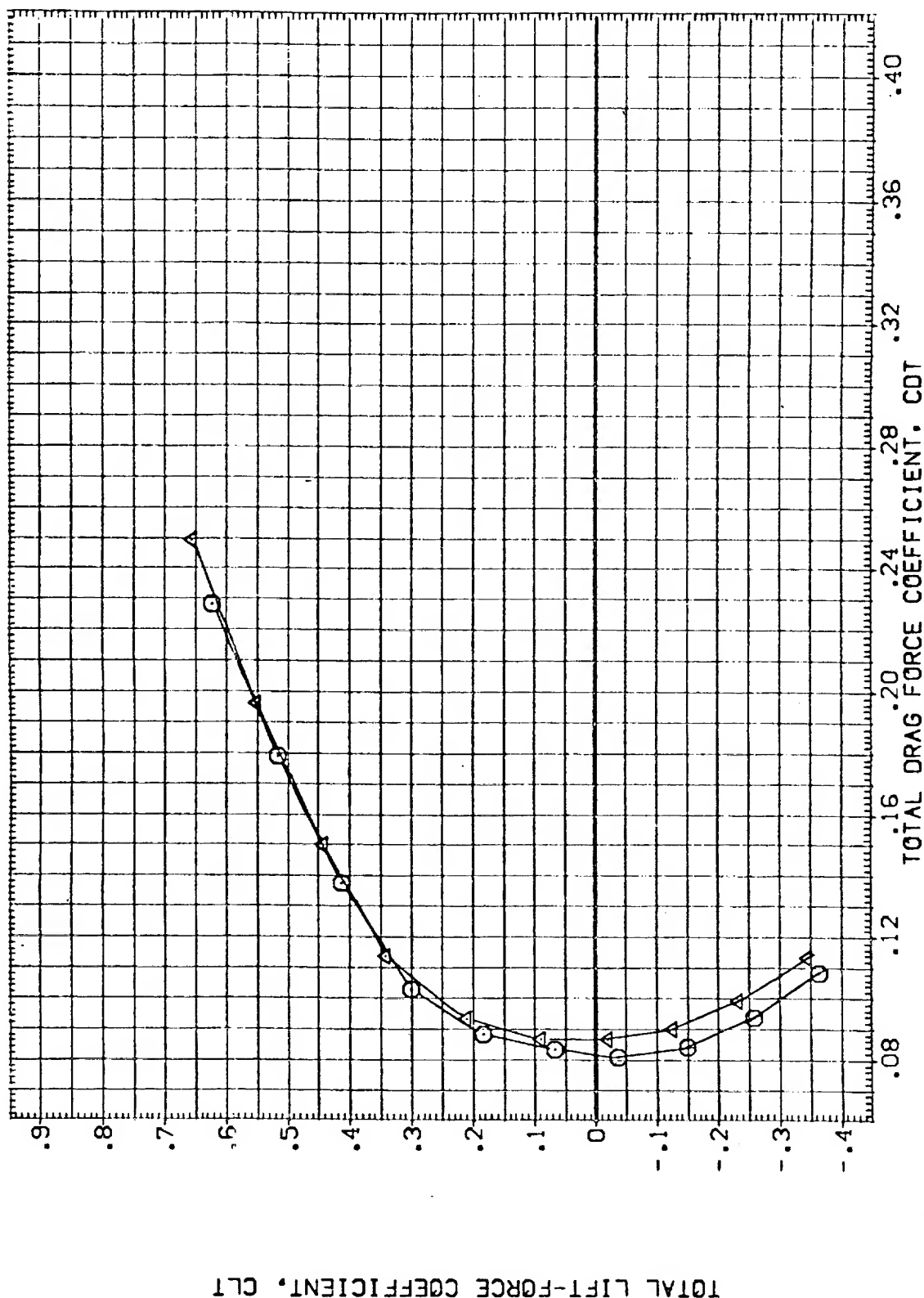


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

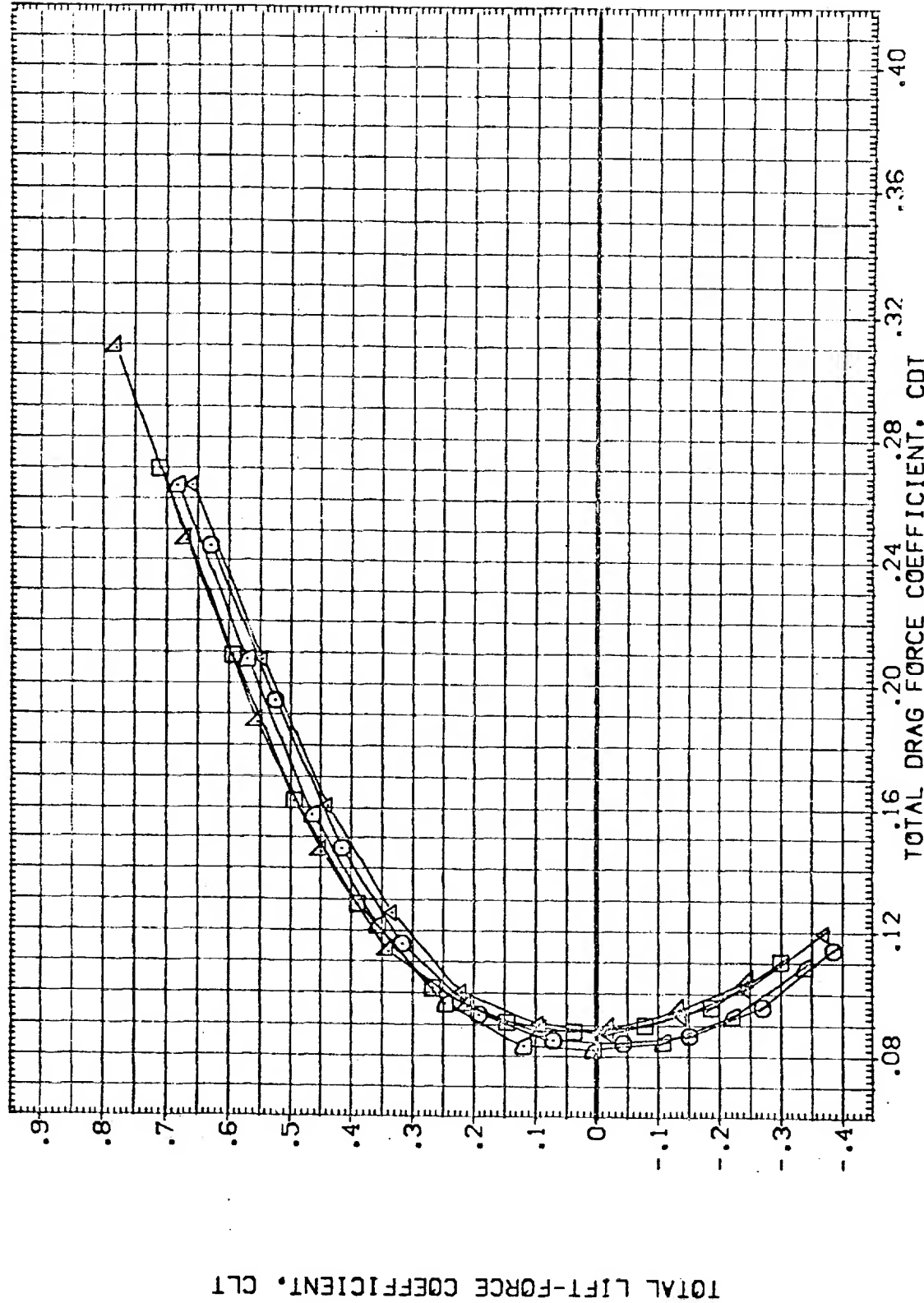


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OA59 OA11A-(N24 RS VB)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OA59 OA11A-(RS VB)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

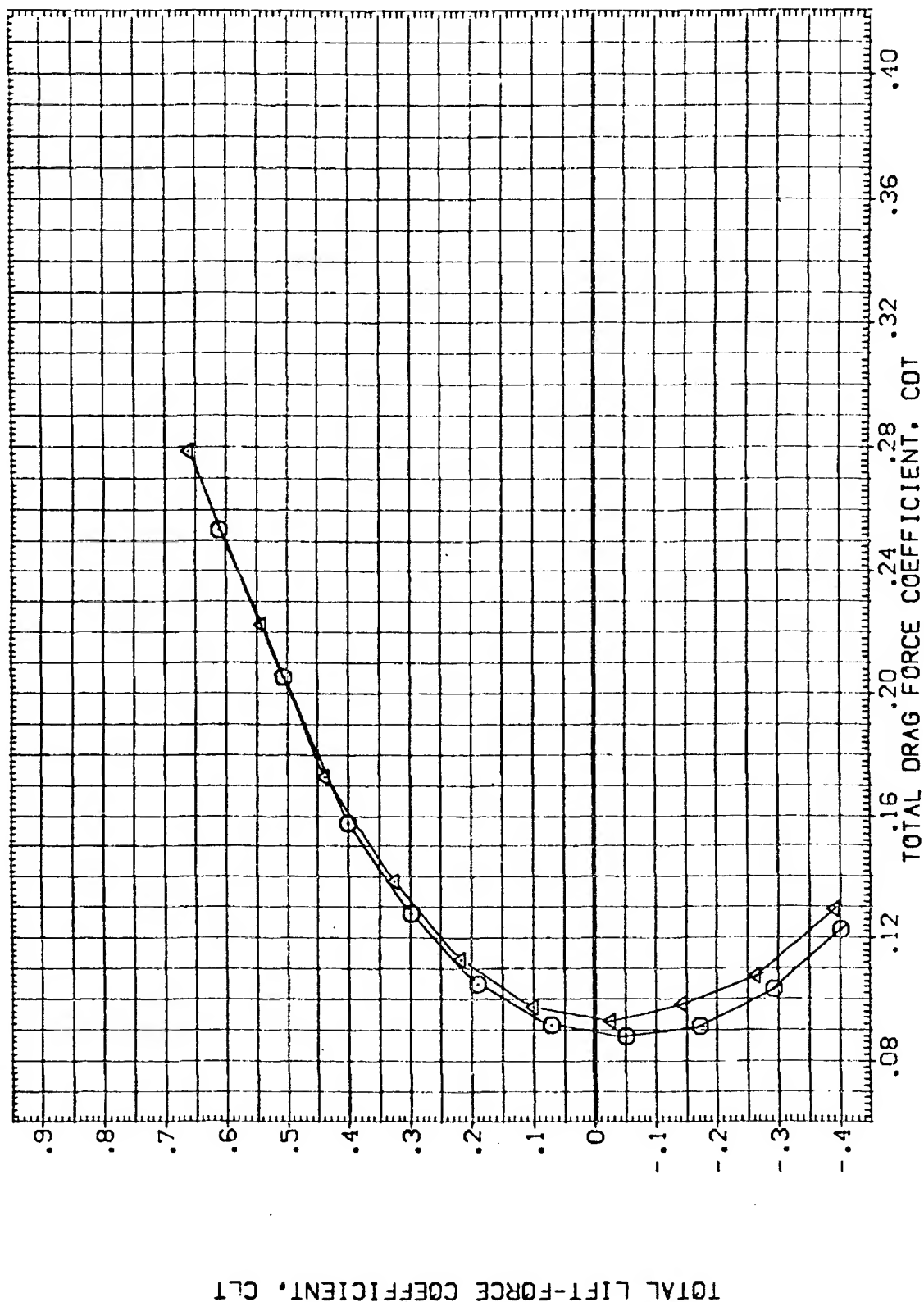


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6755 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.
					.0150

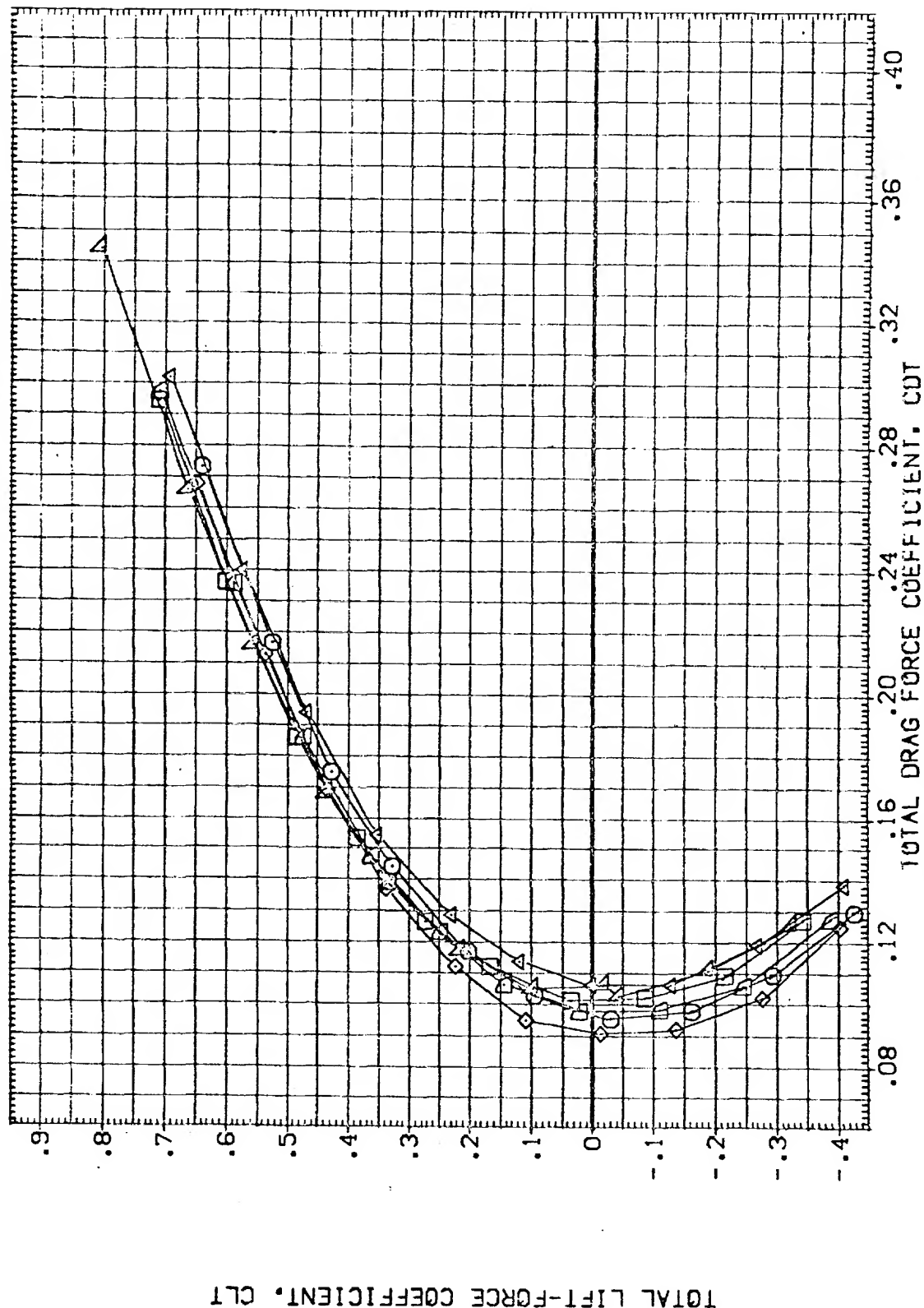


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C_F)MACH = .90

DATA DE 11 311000
 [GER001] ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG
 [GER005] DATA NOT AVAILABLE
 [GER006] DATA NOT AVAILABLE
 [GER012] ARC 66-709 0A59 0A11A-(R5 V8)+STRUT
 [GER014] DATA NOT AVAILABLE
 [GER015] DATA NOT AVAILABLE

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

DATA DE 11 311000
 [GER001] ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG
 [GER005] DATA NOT AVAILABLE
 [GER006] DATA NOT AVAILABLE
 [GER012] ARC 66-709 0A59 0A11A-(R5 V8)+STRUT
 [GER014] DATA NOT AVAILABLE
 [GER015] DATA NOT AVAILABLE

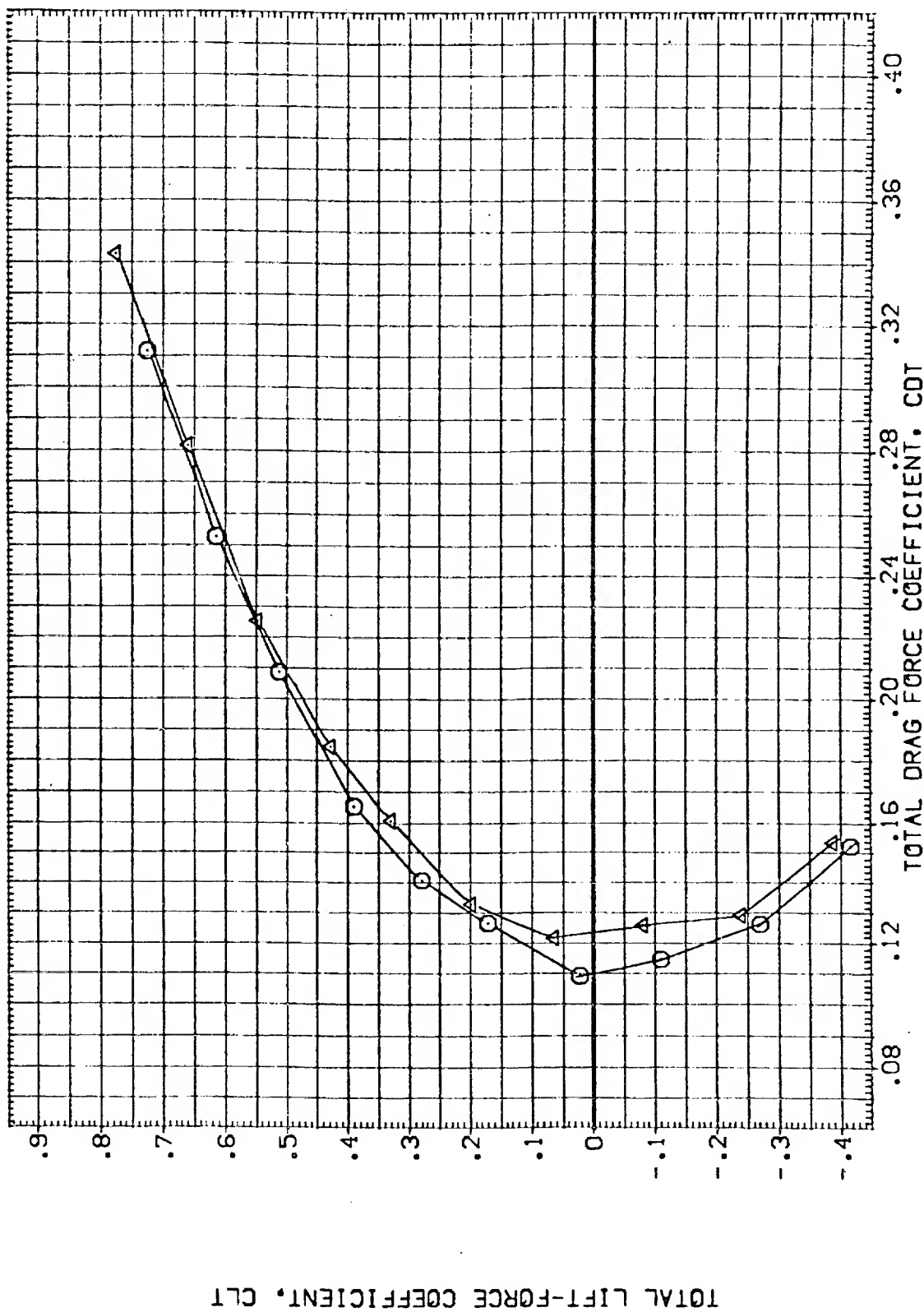


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5936 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	BREF 1.1710 FT.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
					SCALE .0150

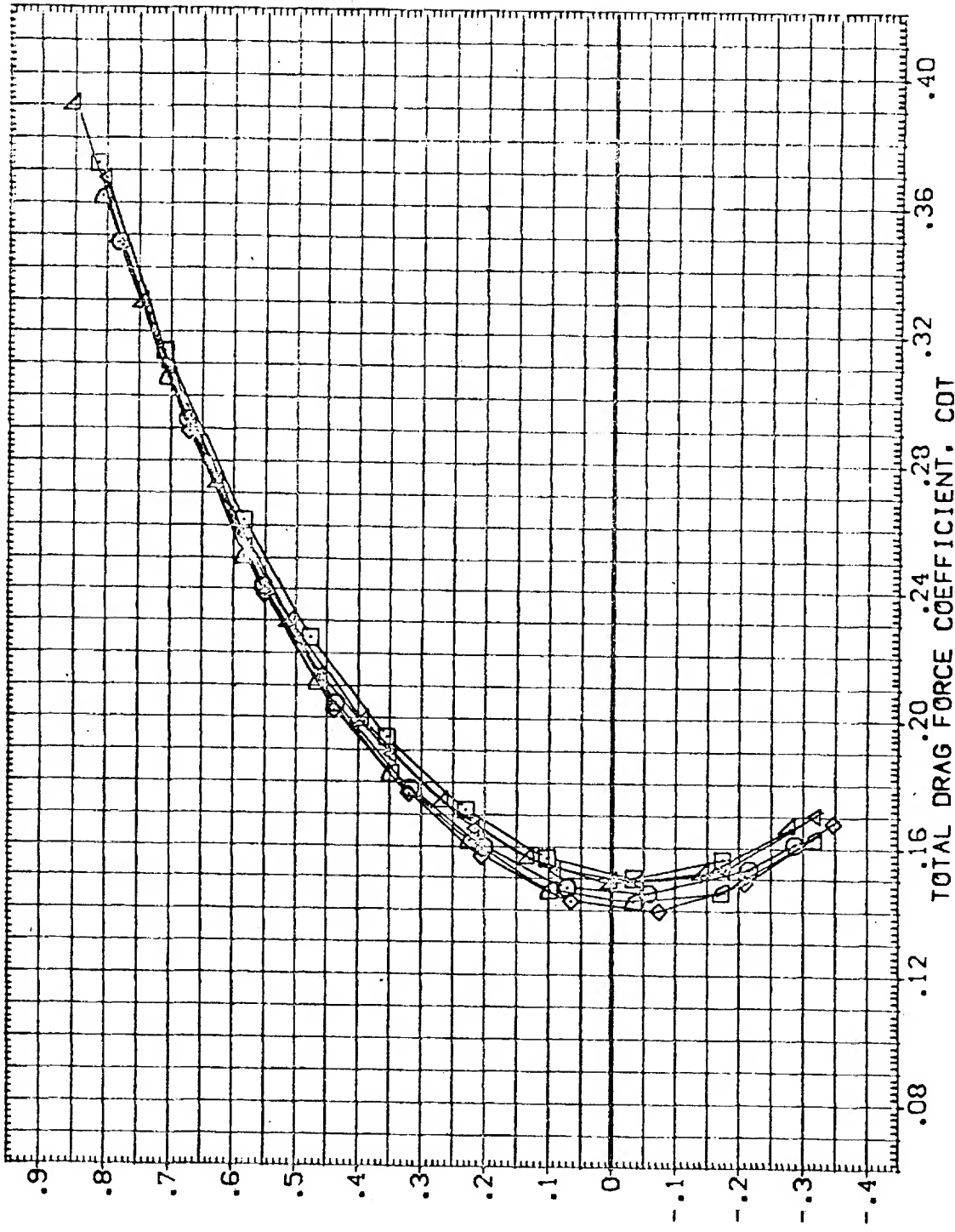


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

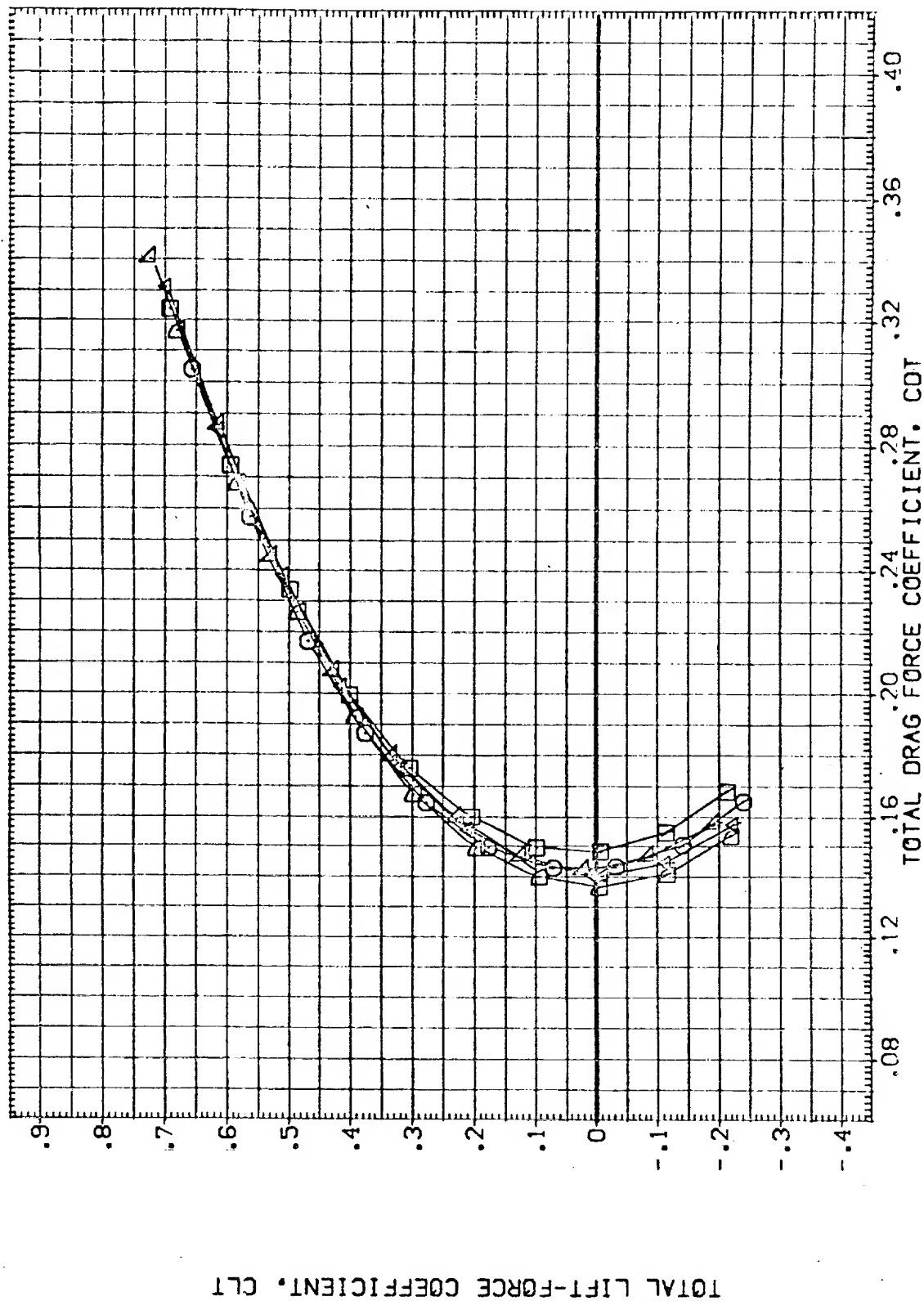
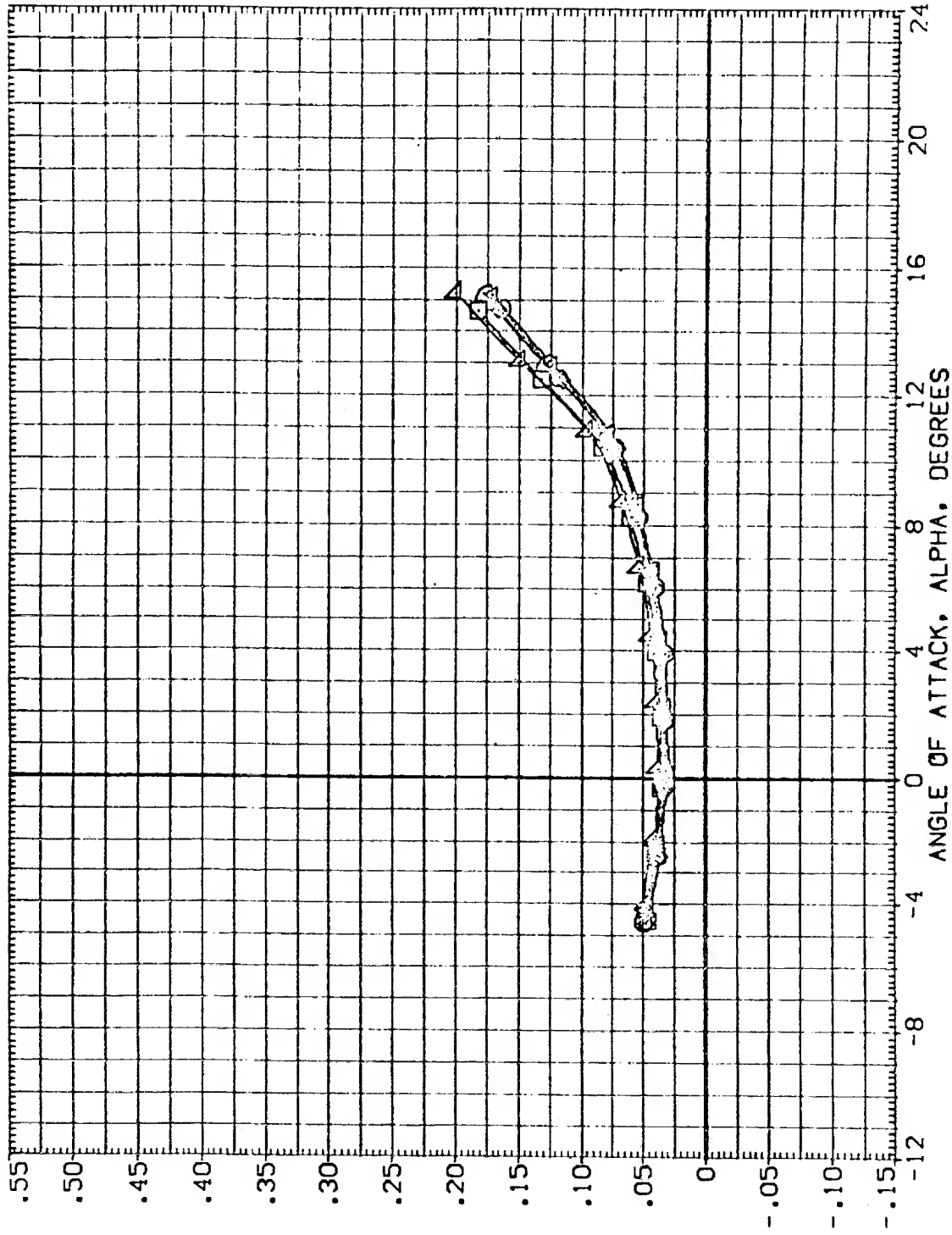


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER008)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

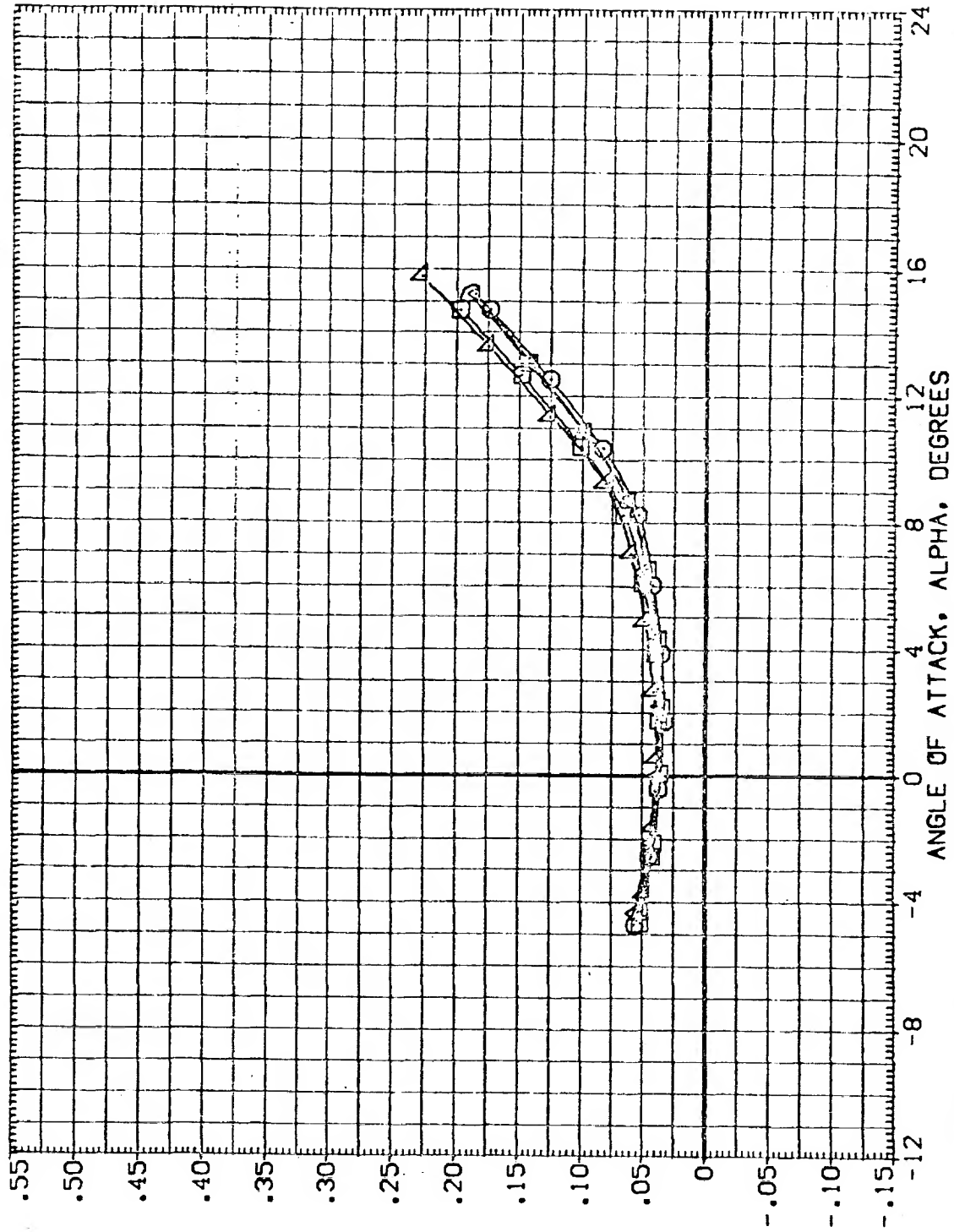


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

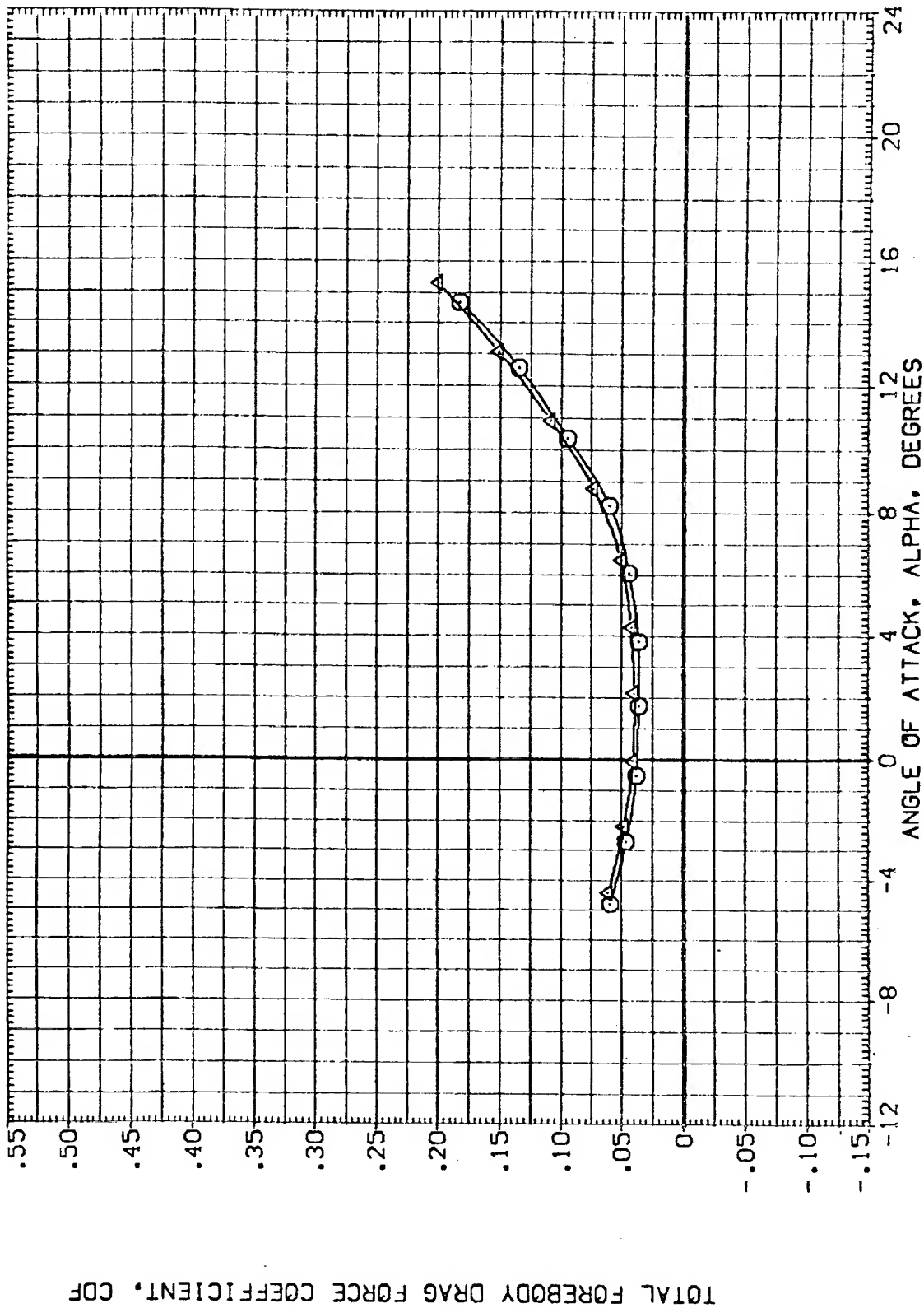


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

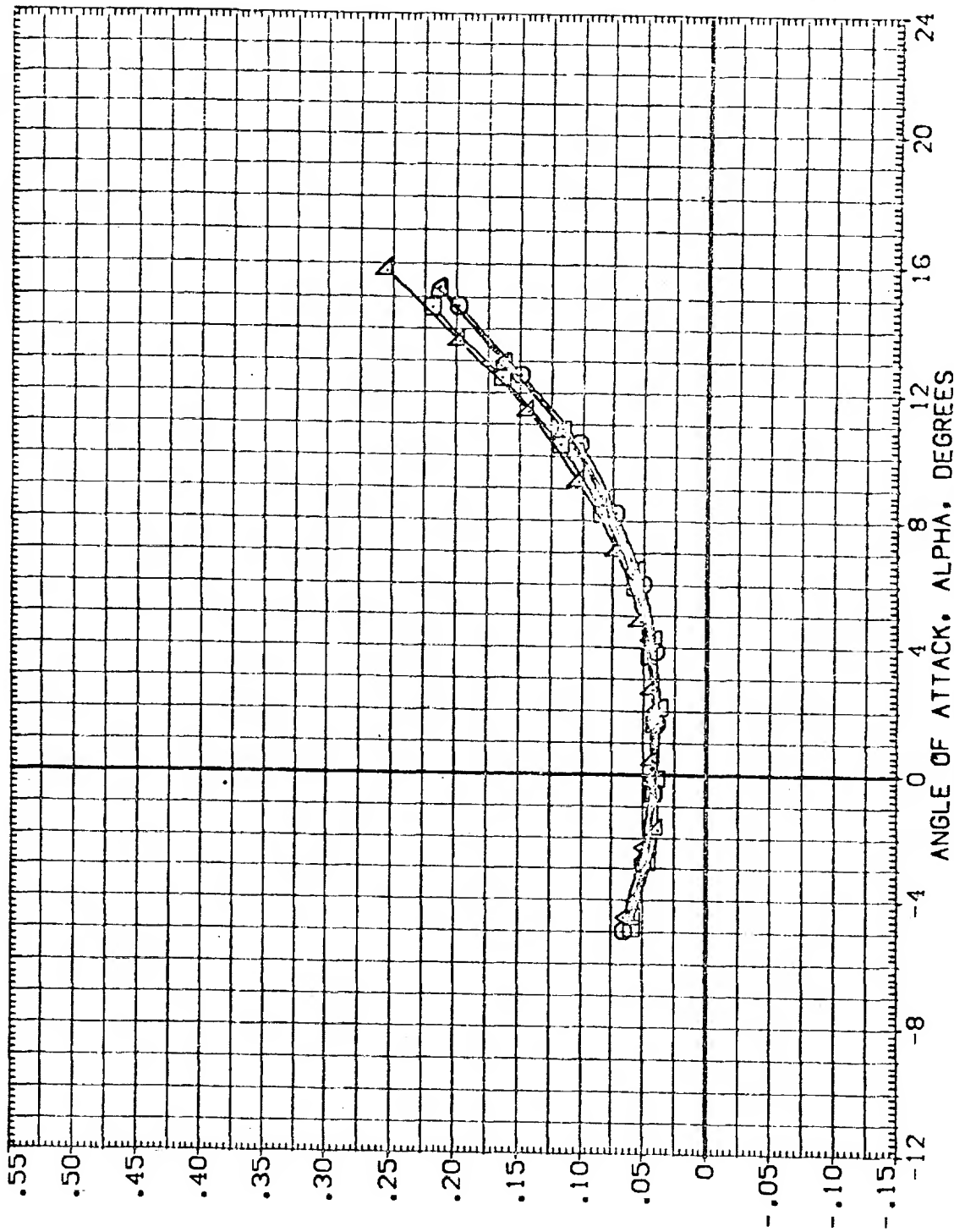


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A111A-(N24 RS V8)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

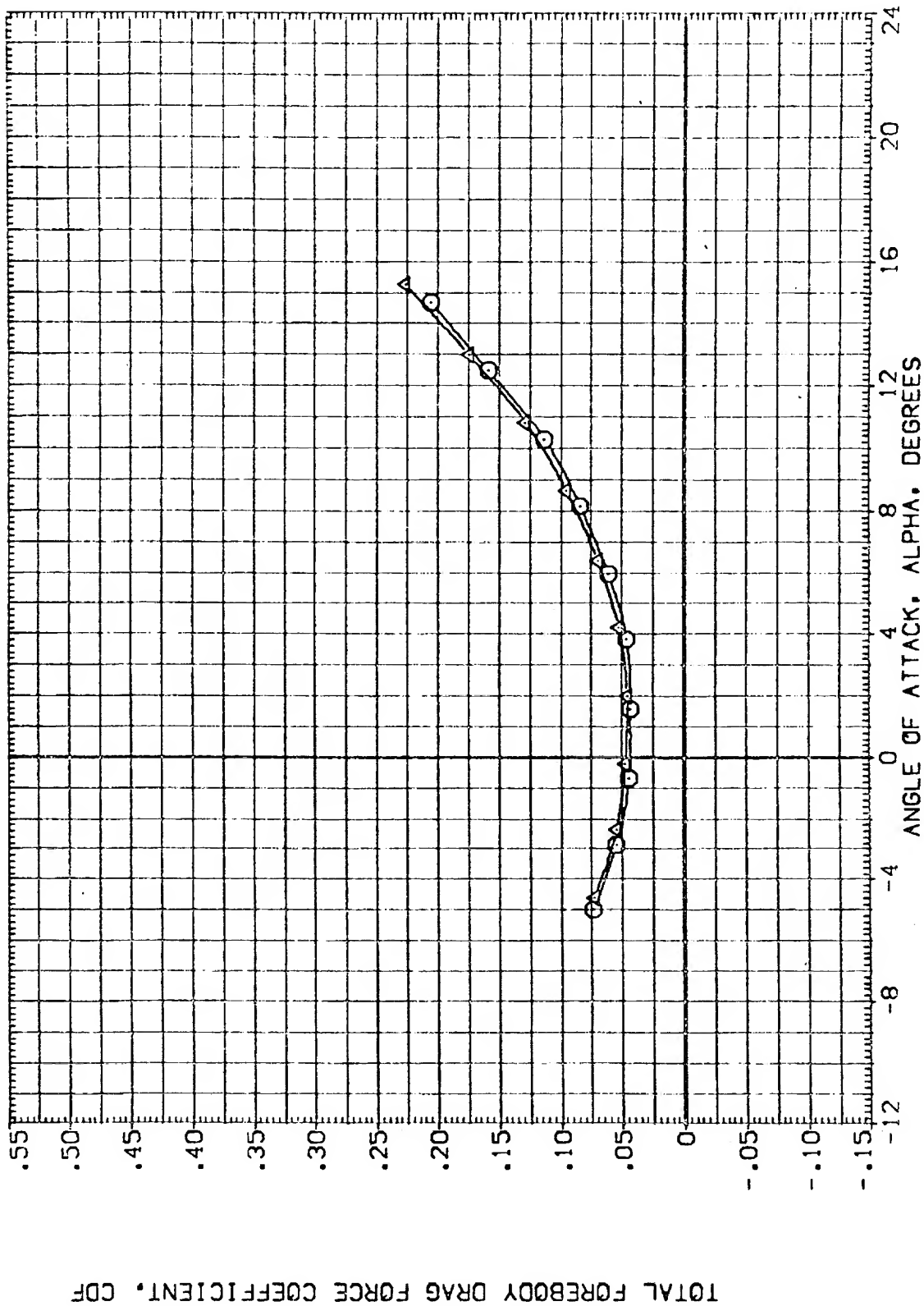


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 QAS9 0A11A-(N24 RS V81)*STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V81)*STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V81)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V81)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

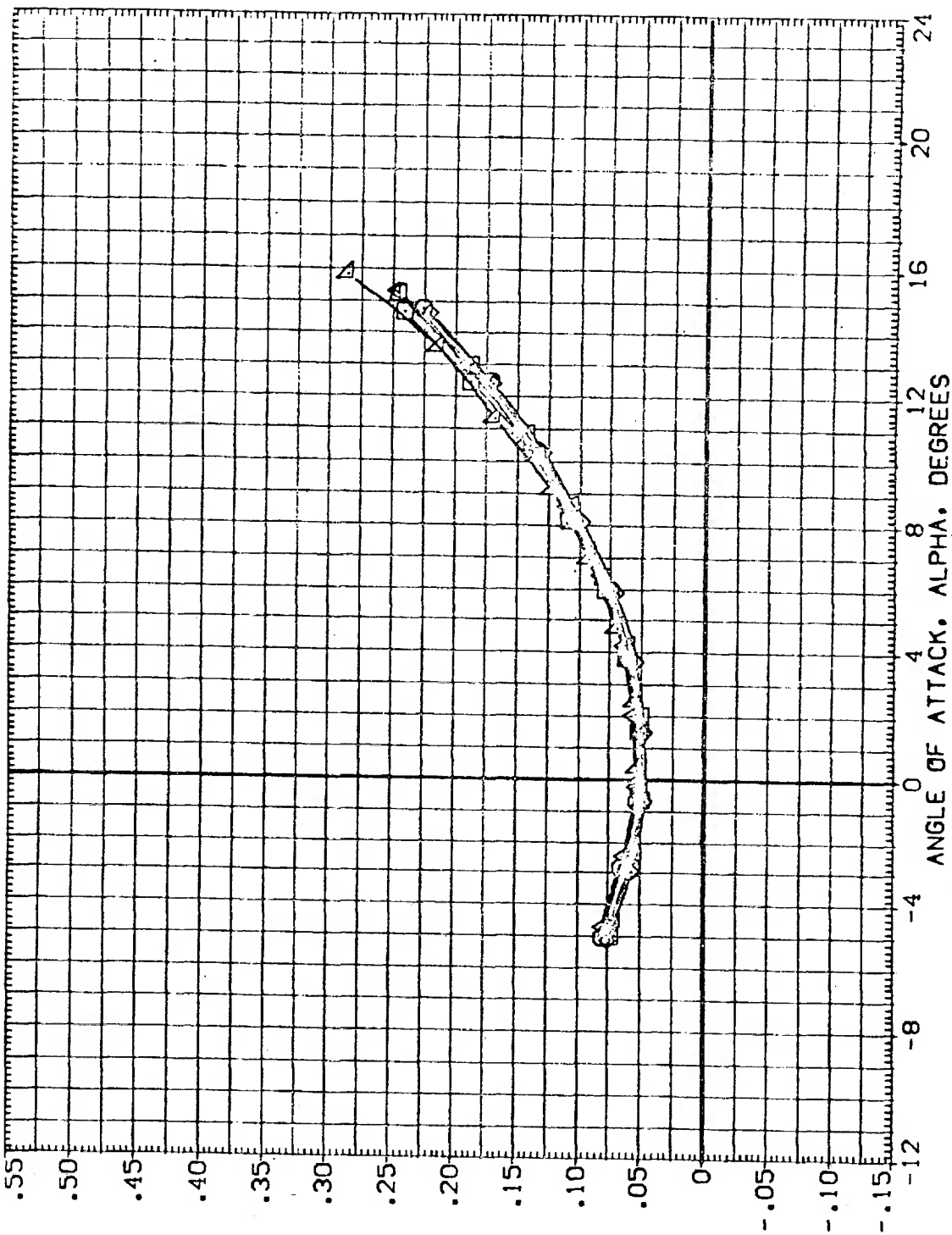


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 Q411A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 QAS9 Q411A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

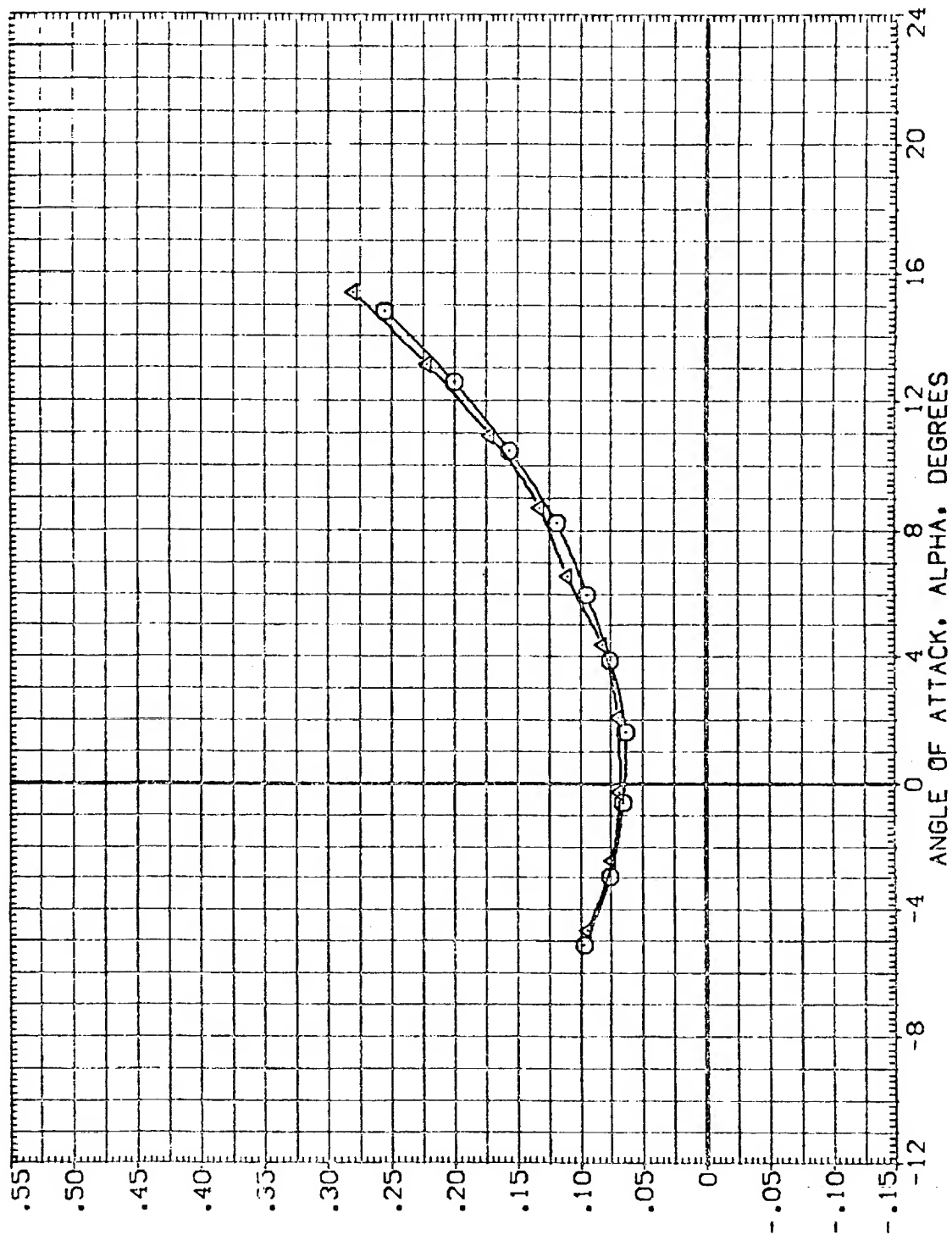


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

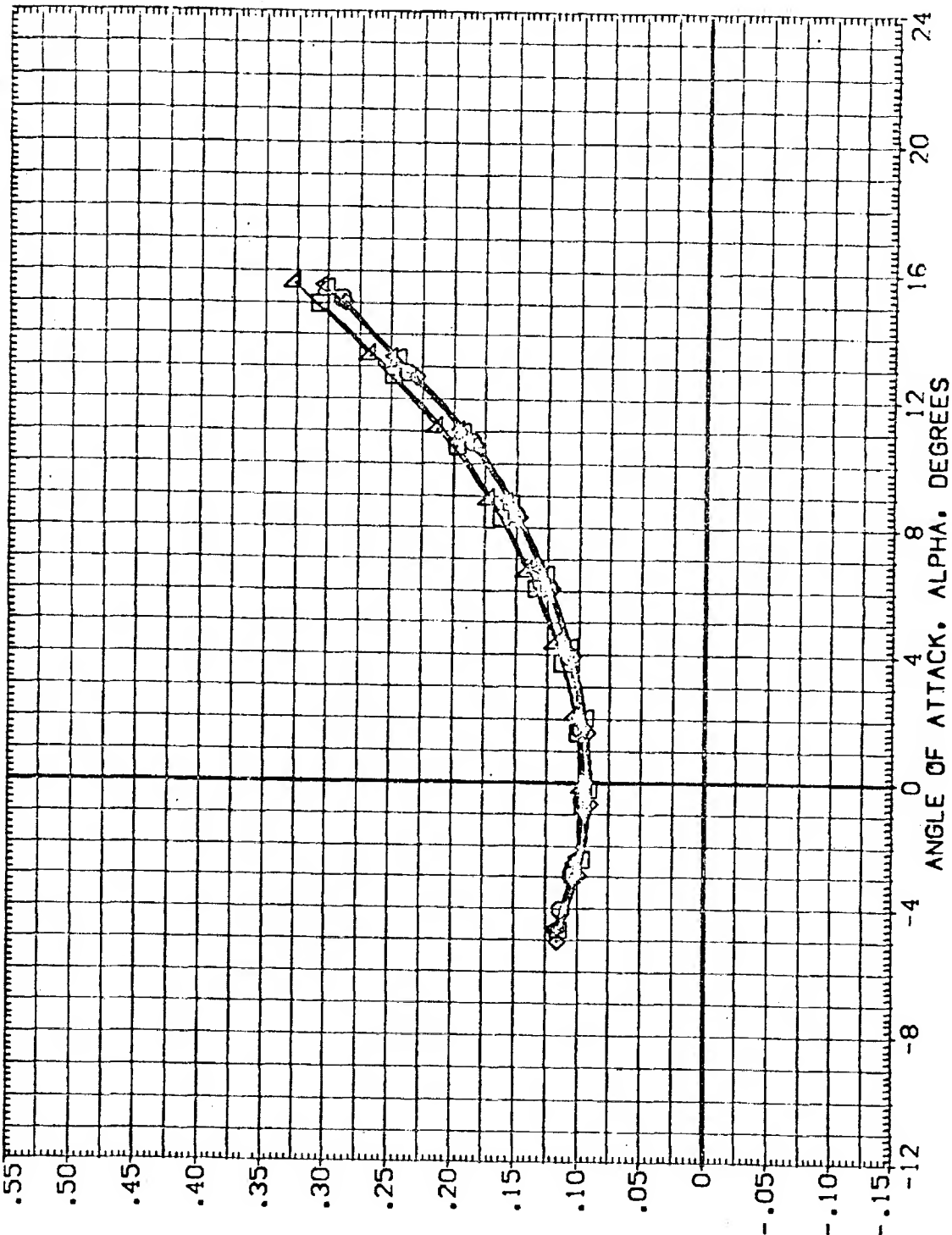


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

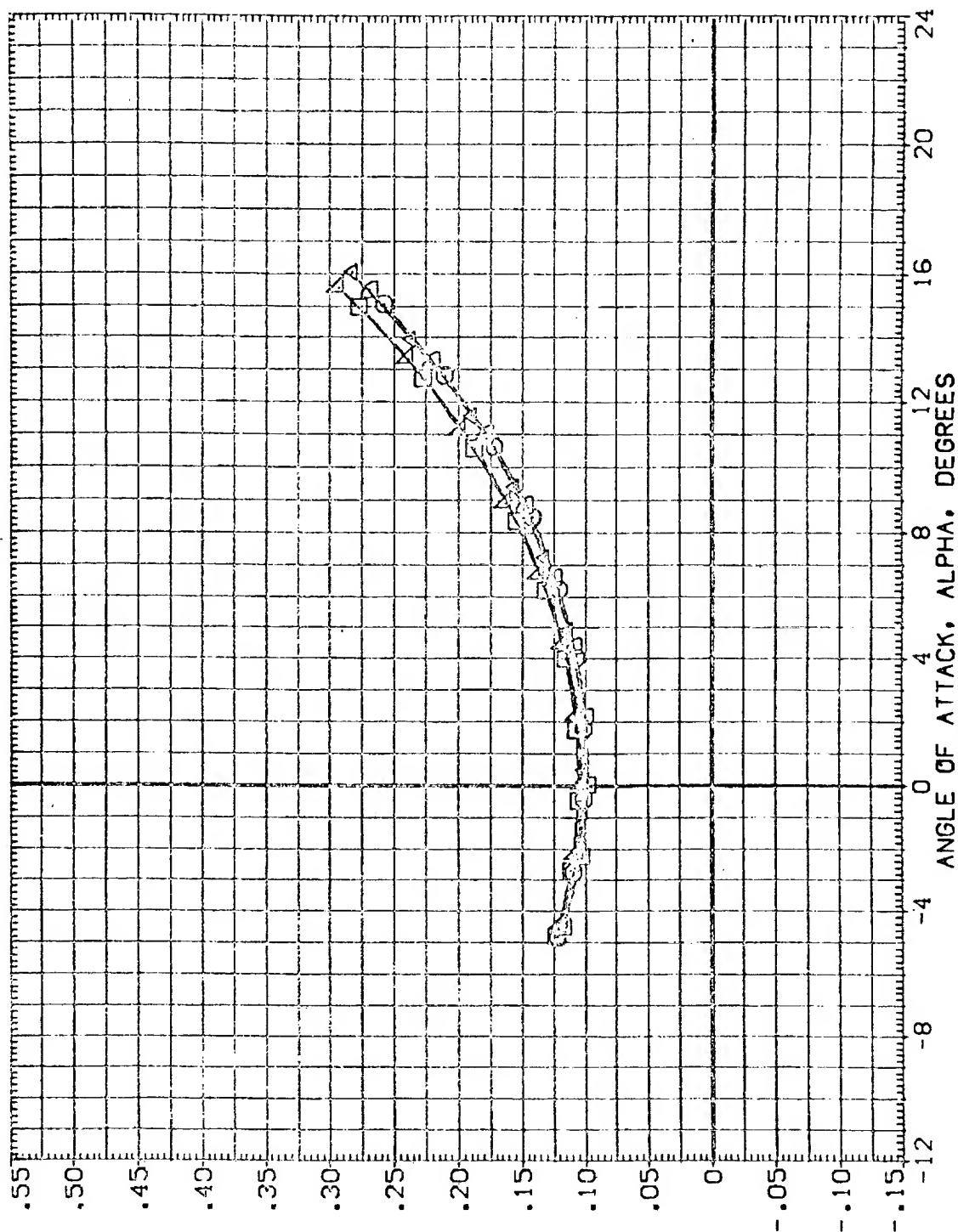


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

TOTAL FOREBODY DRAG FORCE COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[GER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[GER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
[GER006]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.171C IN.
[GER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[GER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[GER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

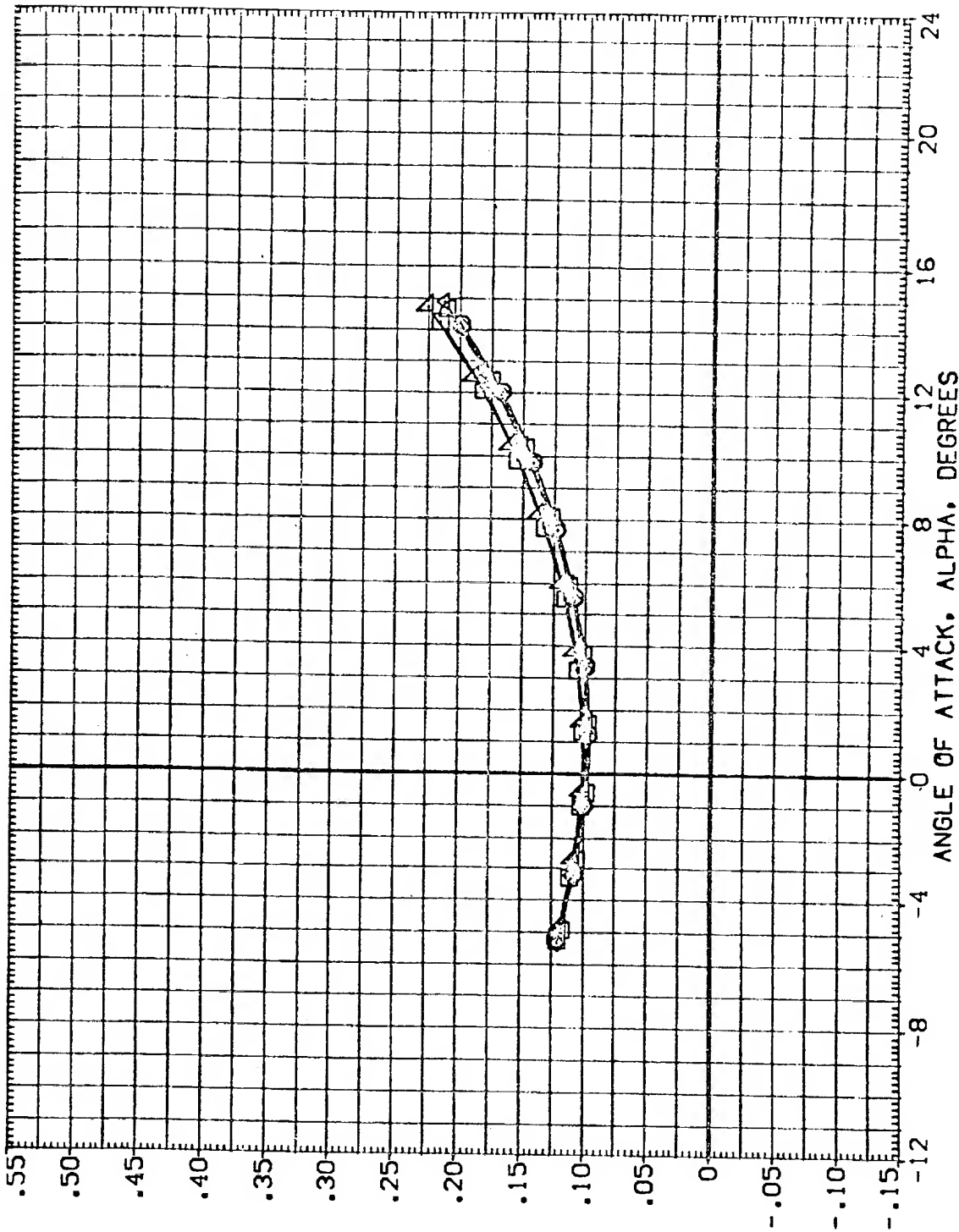


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

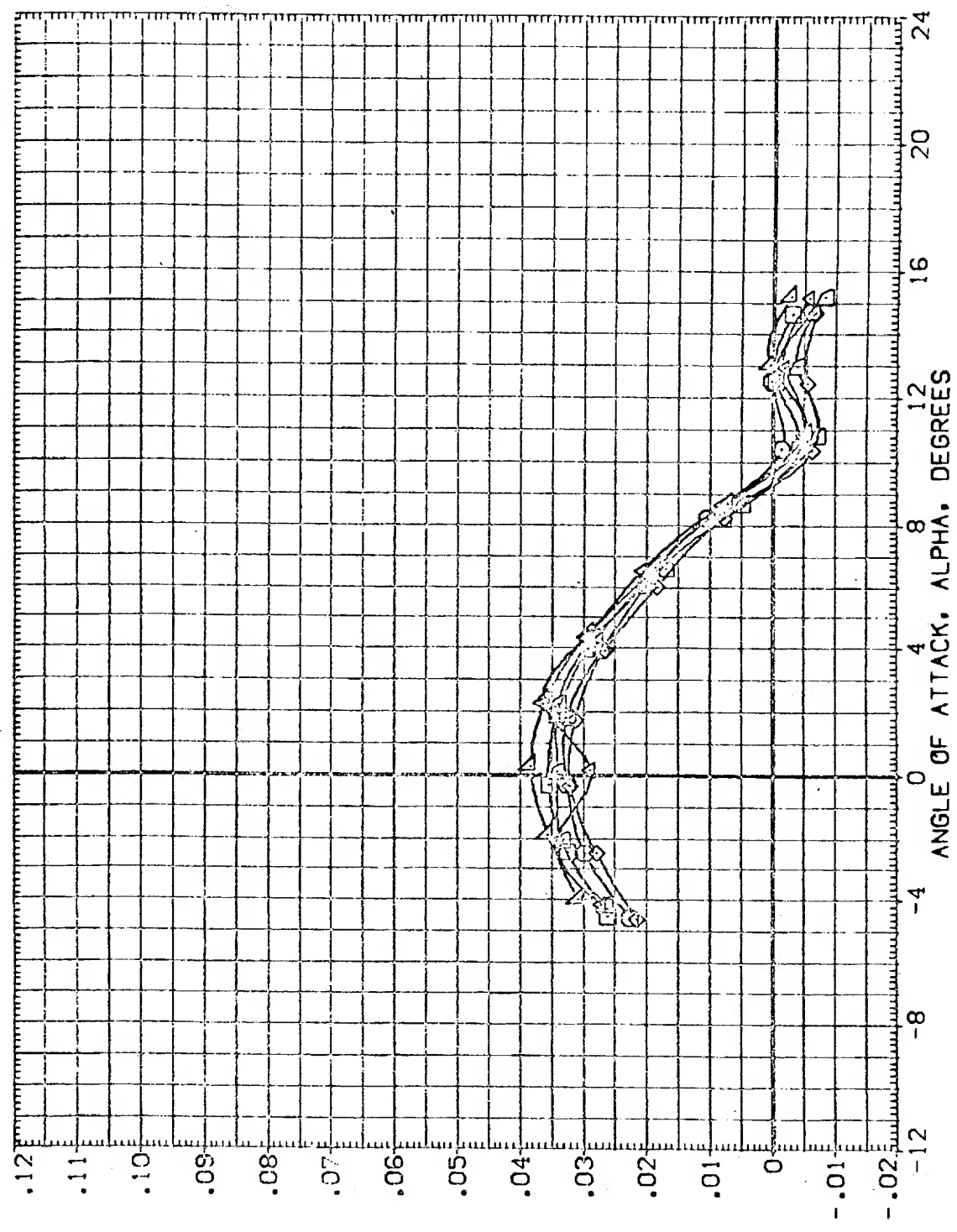


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

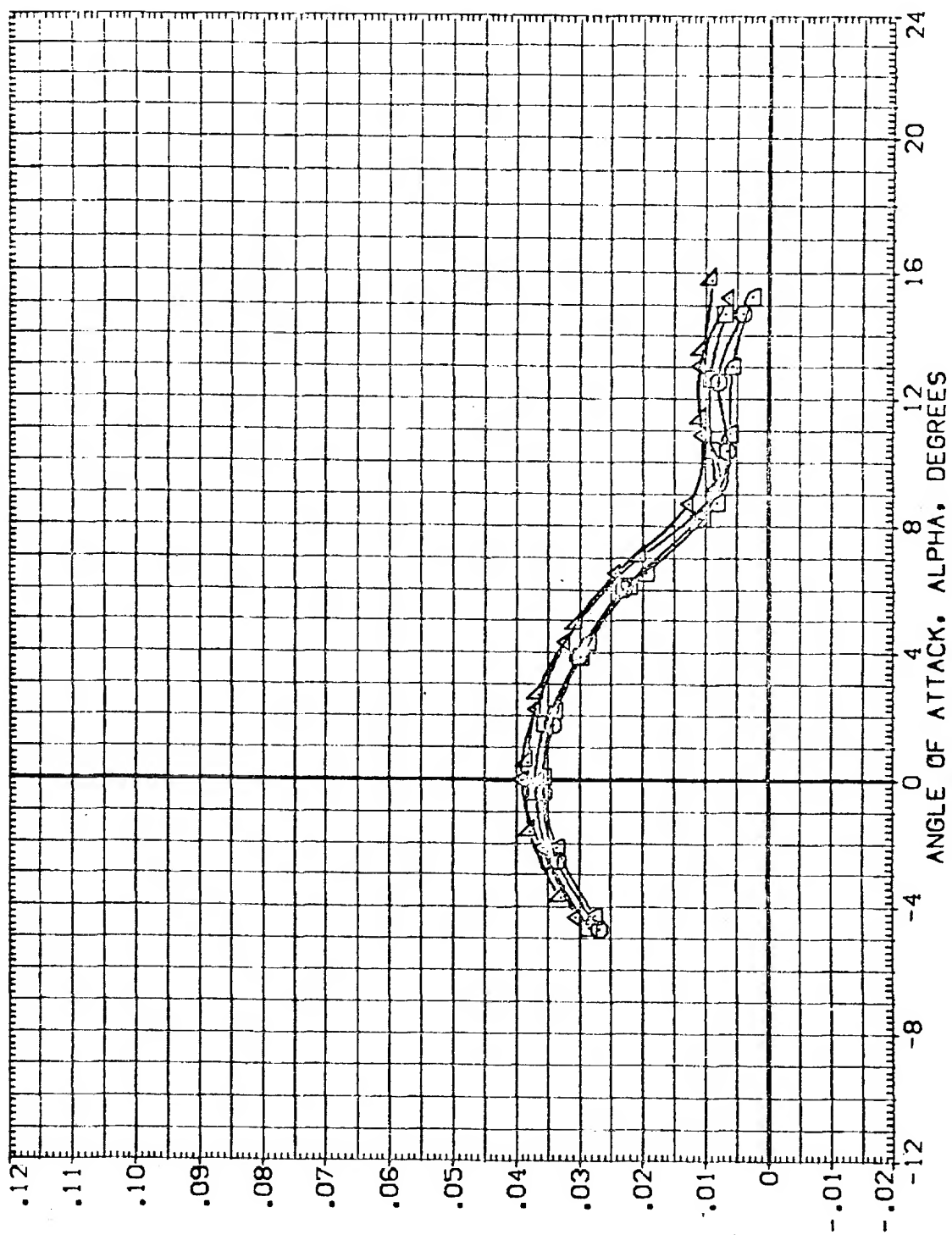
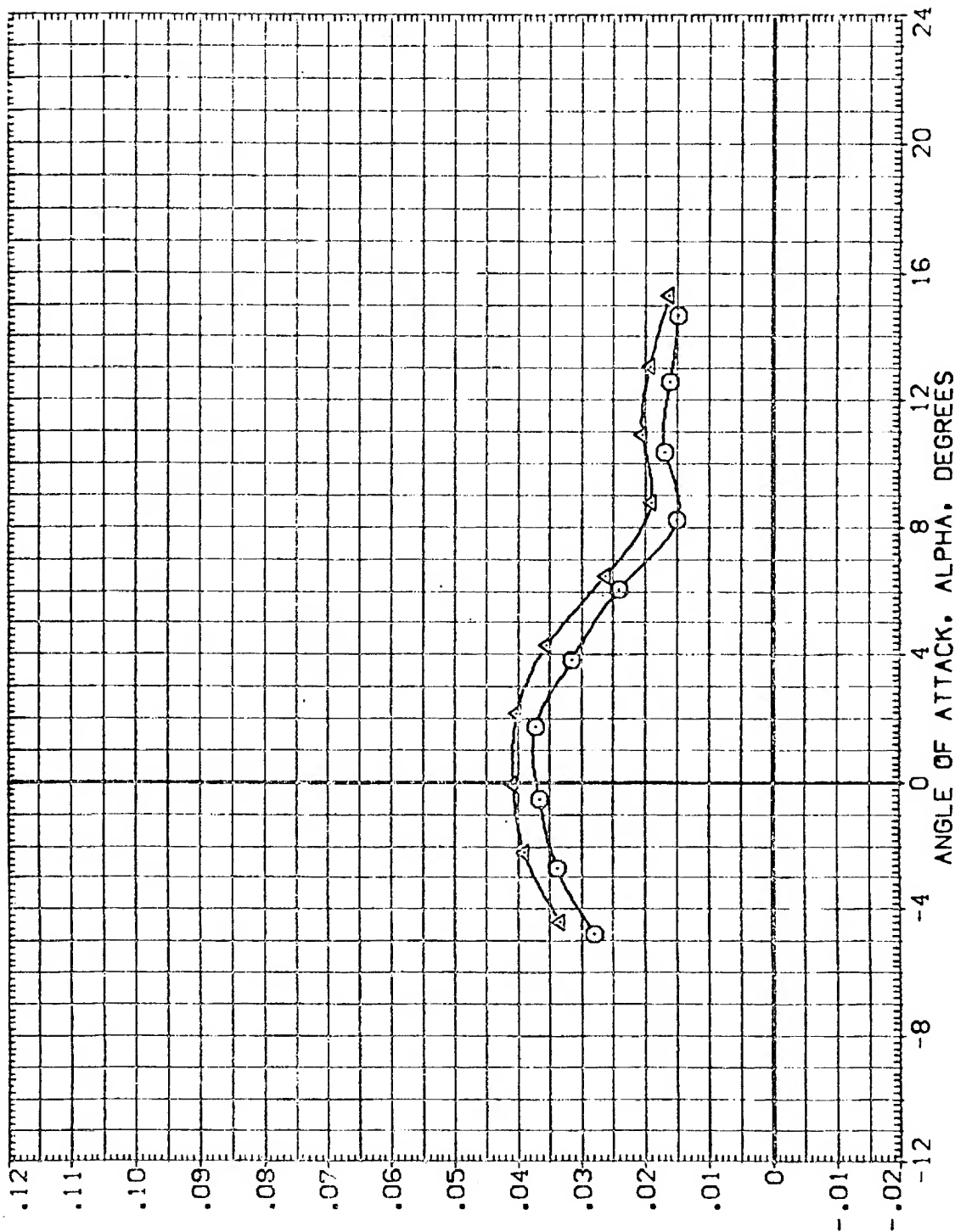


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, CAF

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

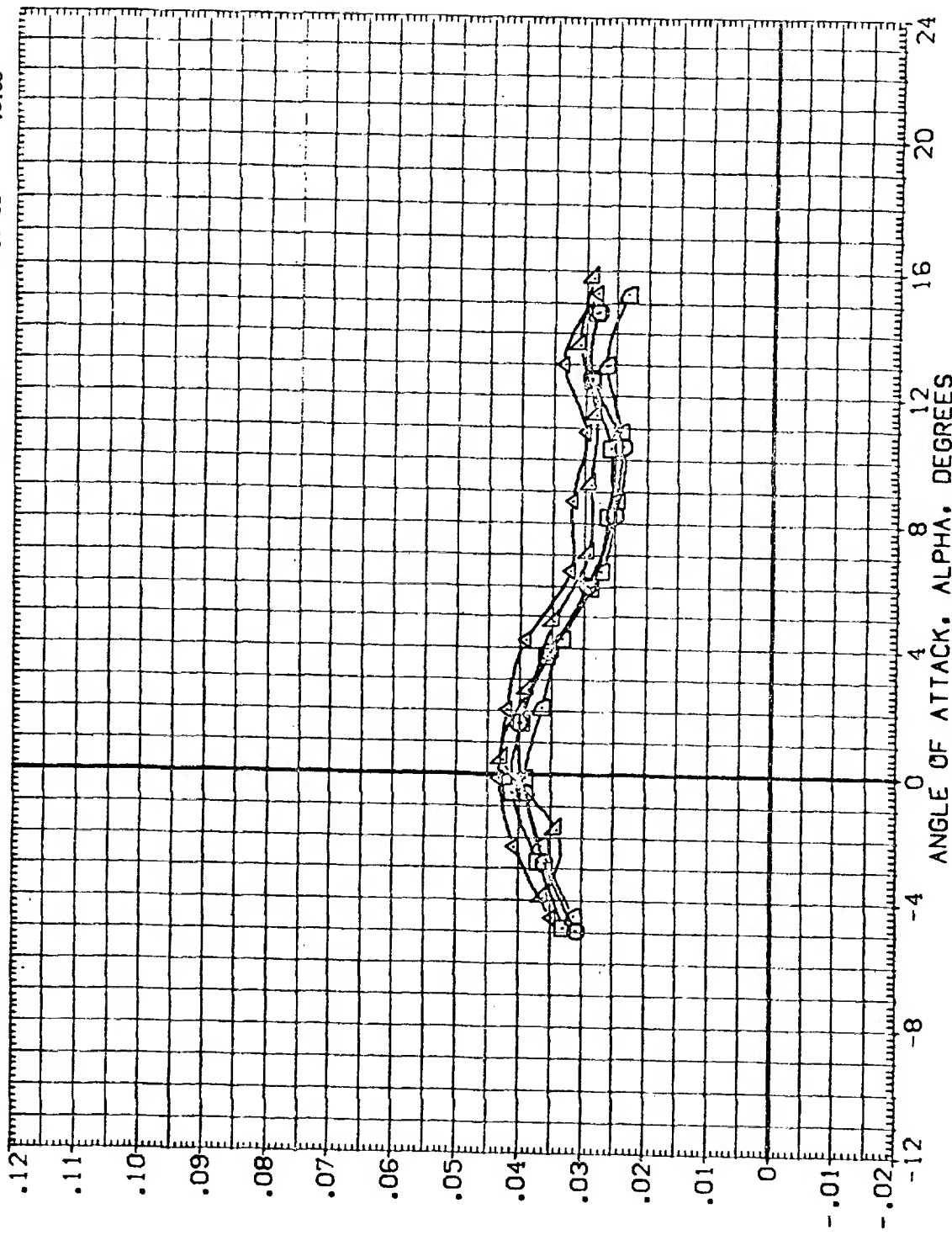
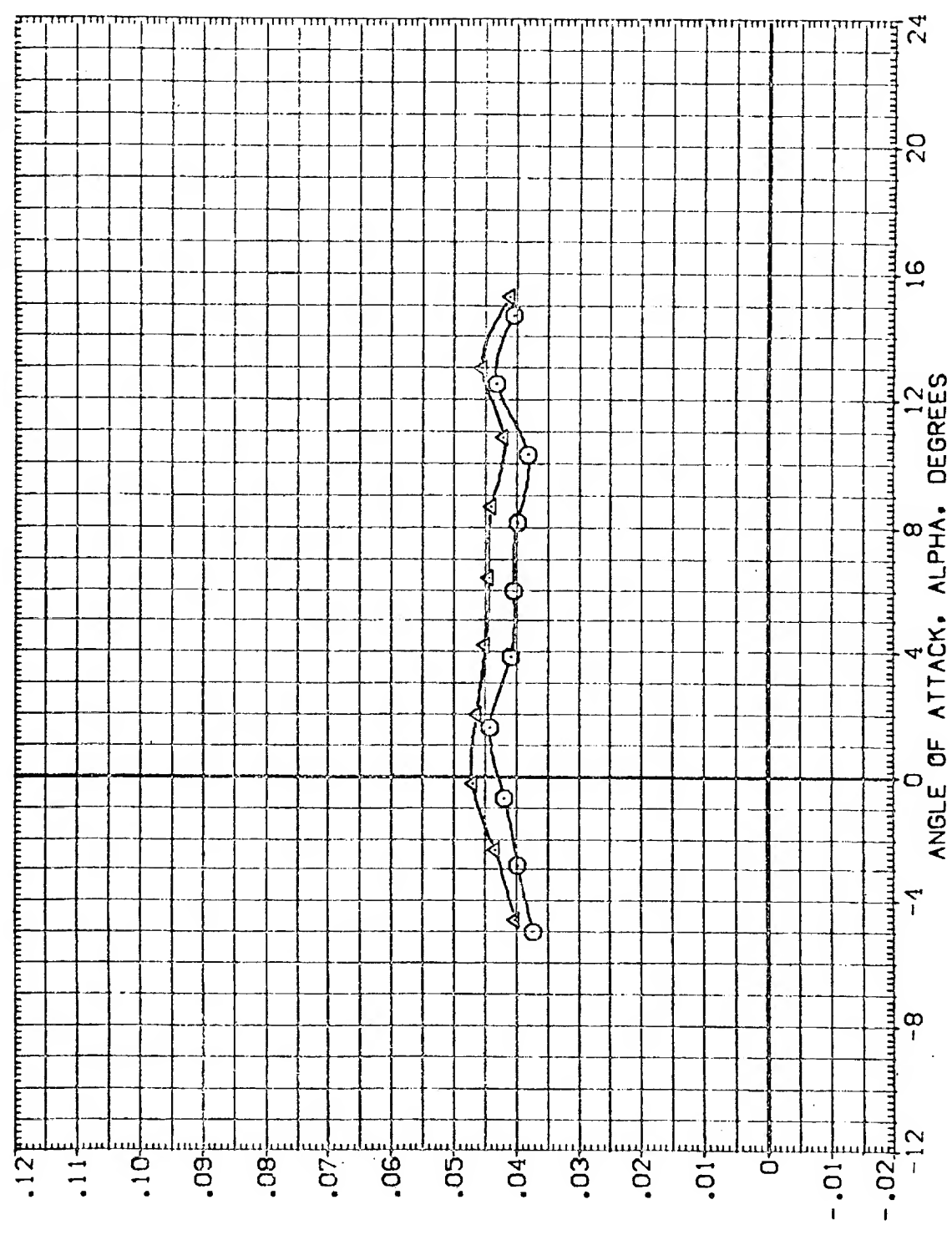


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 D459 D411A-(N24 RS VB1)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 D459 D411A-(RS VB1)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



TOTAL FOREBODY AXIAL-FORCE COEFFICIENT, Cax

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GER001)	ARC 66-709	DA59	DA11A-(N24 RS V81+STRUT+DUM SING
(GER005)	ARC 66-709	DA59	DA11A-(N24 RS V81+STRUT+DUM SING
(GER006)	ARC 66-709	DA59	DA11A-(N24 RS V81+STRUT+DUM SING
(GER012)	ARC 66-709	DA59	DA11A-(RS V81+STRUT
(GER014)	ARC 66-709	DA59	DA11A-(RS V81+STRUT
(GER015)	ARC 66-709	DA59	DA11A-(RS V81+STRUT

BETA ELEVON BDF LAP

.000	.000	-11.700
.000	.000	16.300
.000	.000	11.700
.000	.000	16.300
.000	.000	11.700
.000	.000	16.300

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6755	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

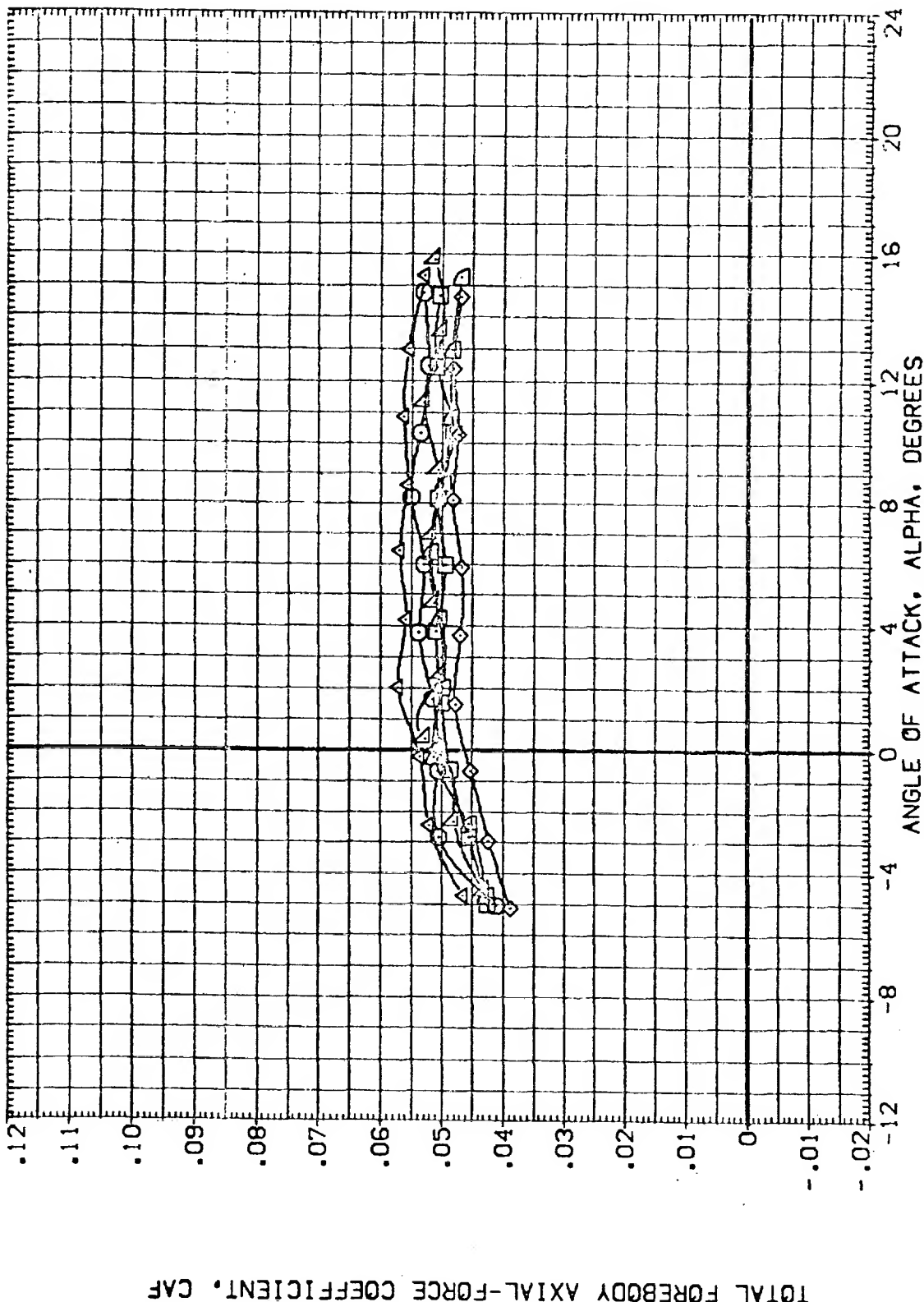


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

{GE001} ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG .000 .000 -11.700 SREF .6053 50.FT.

{GE005} DATA NOT AVAILABLE .000 .000 -16.300 LREF .5935 FT.

{GE006} DATA NOT AVAILABLE .000 .000 .000 BREF 1.1710 FT.

{GE012} ARC 66-709 0A59 0A11A-(R5 V8)+STRUT .000 .000 -11.700 XMRP 12.6235 IN.

{GE013} DATA NOT AVAILABLE .000 .000 16.300 YMRP .0000 IN.

{GE015} DATA NOT AVAILABLE .000 .000 .000 ZMRP -.3750 IN.

SCALE .0150

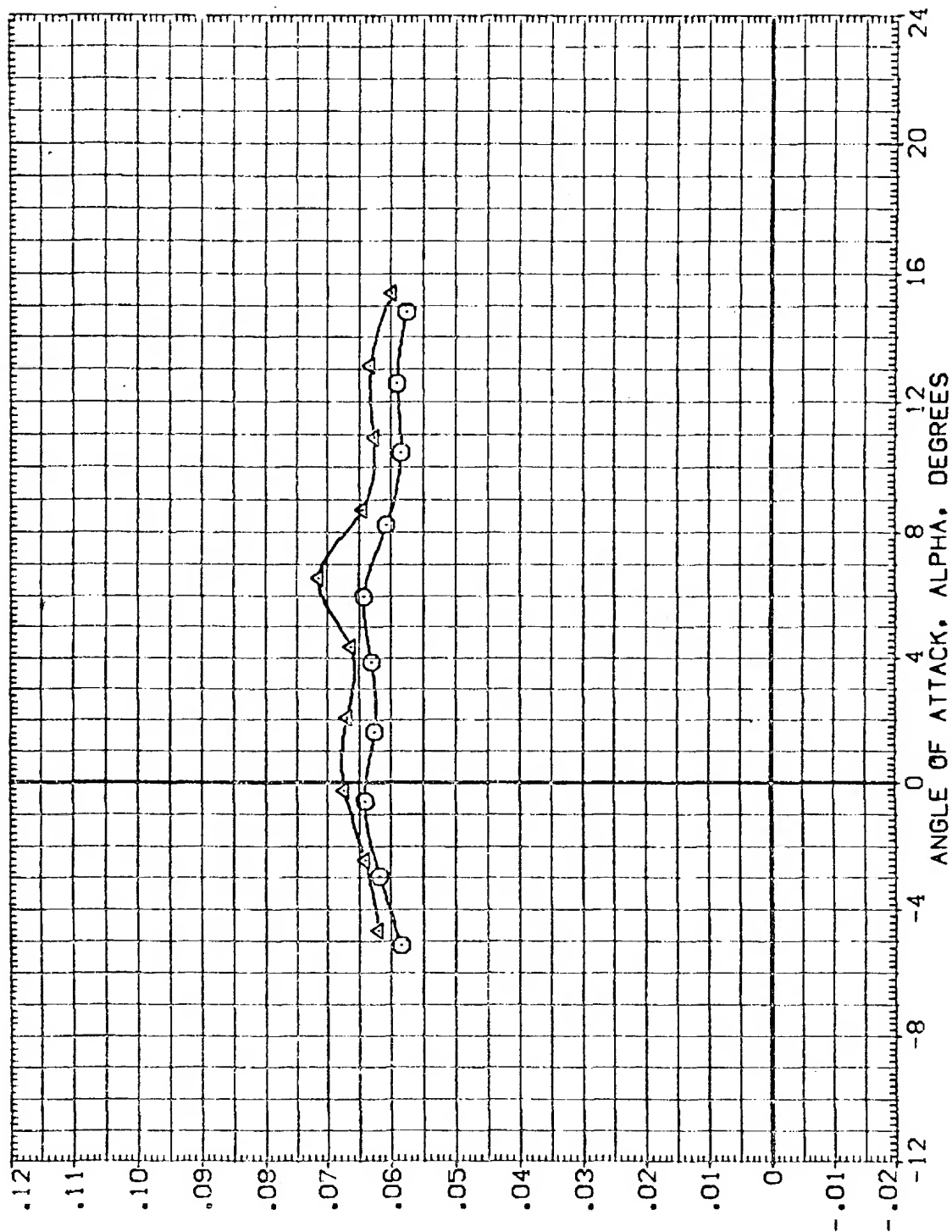


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

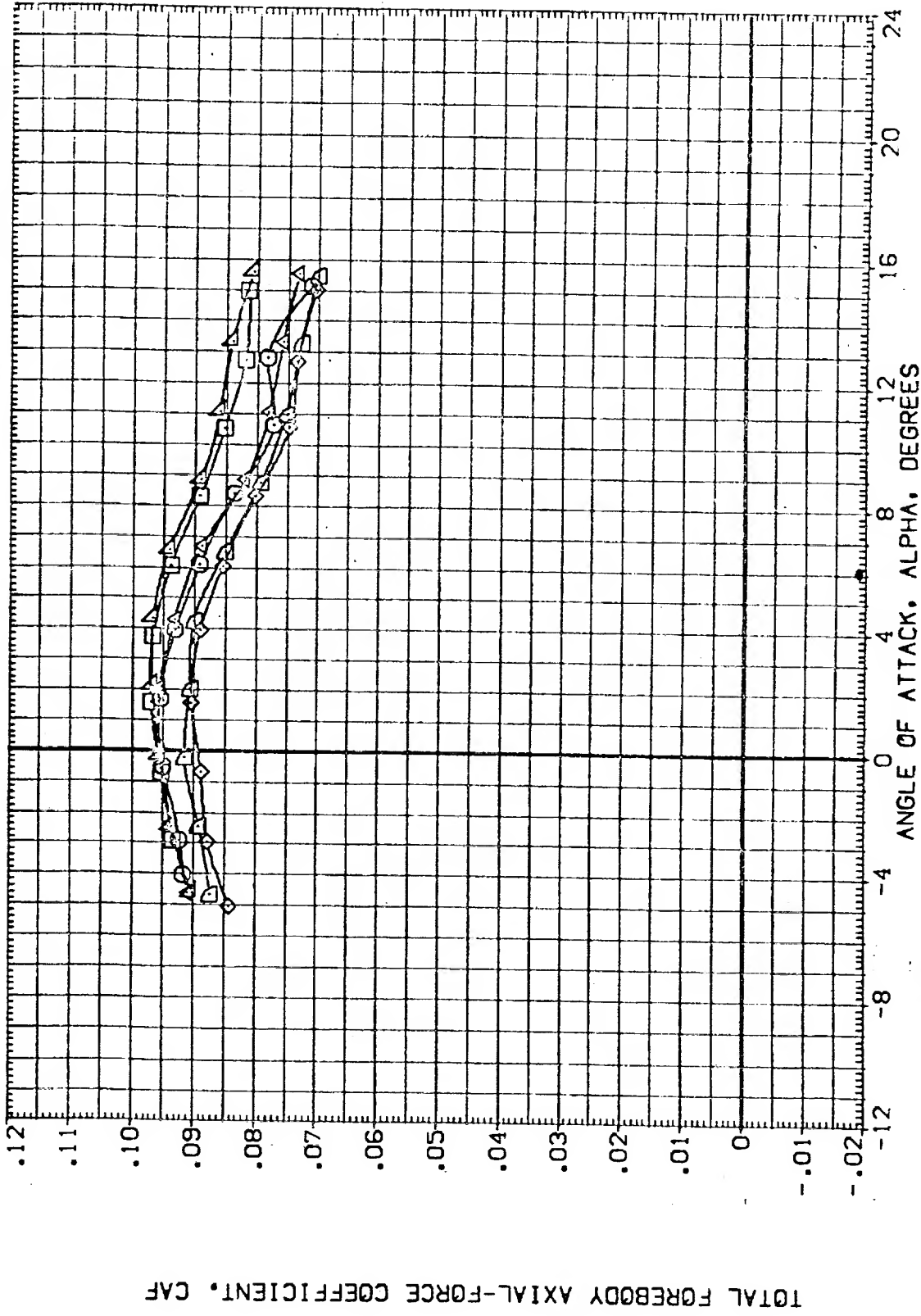


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF 6053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF 5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

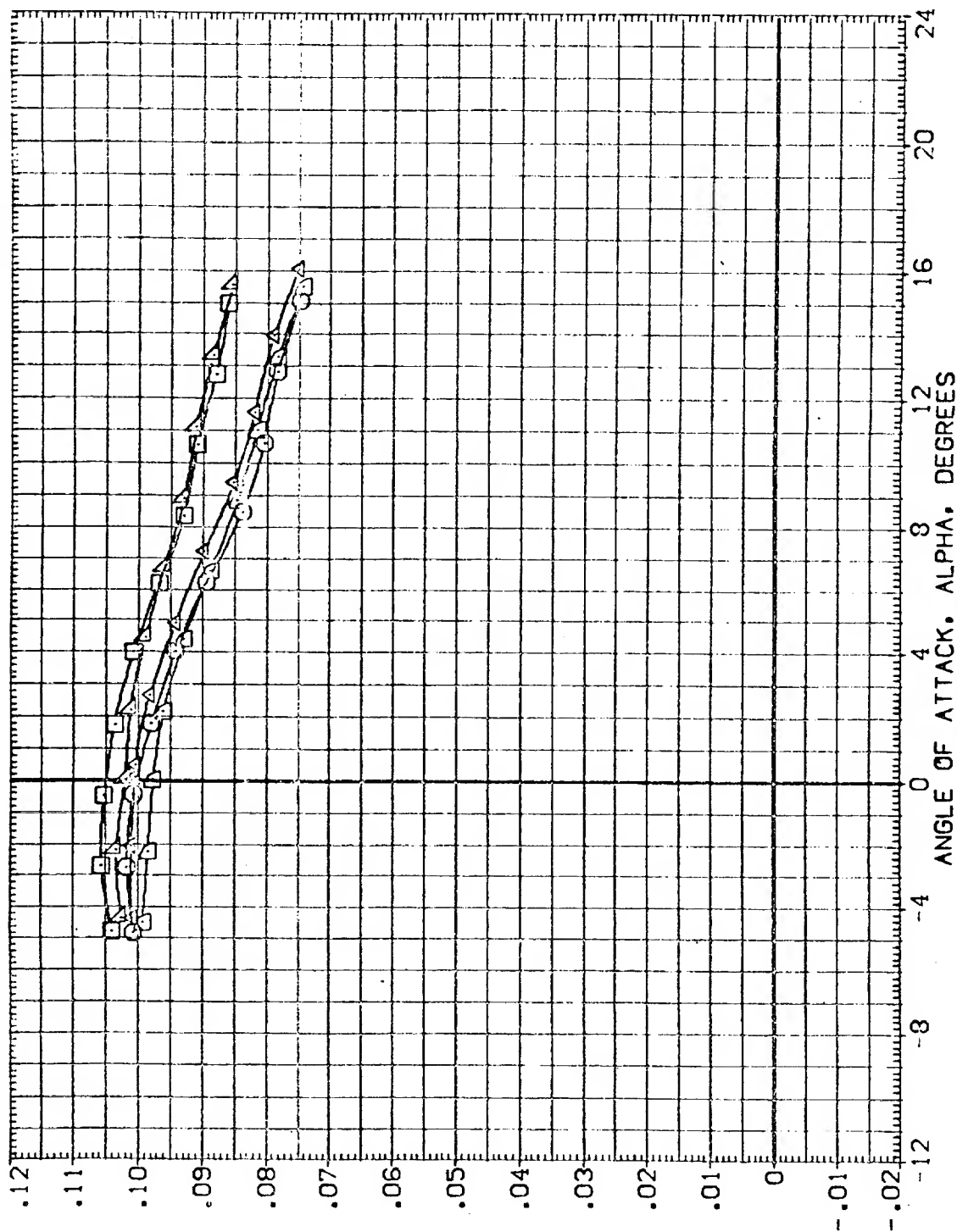


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER005)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

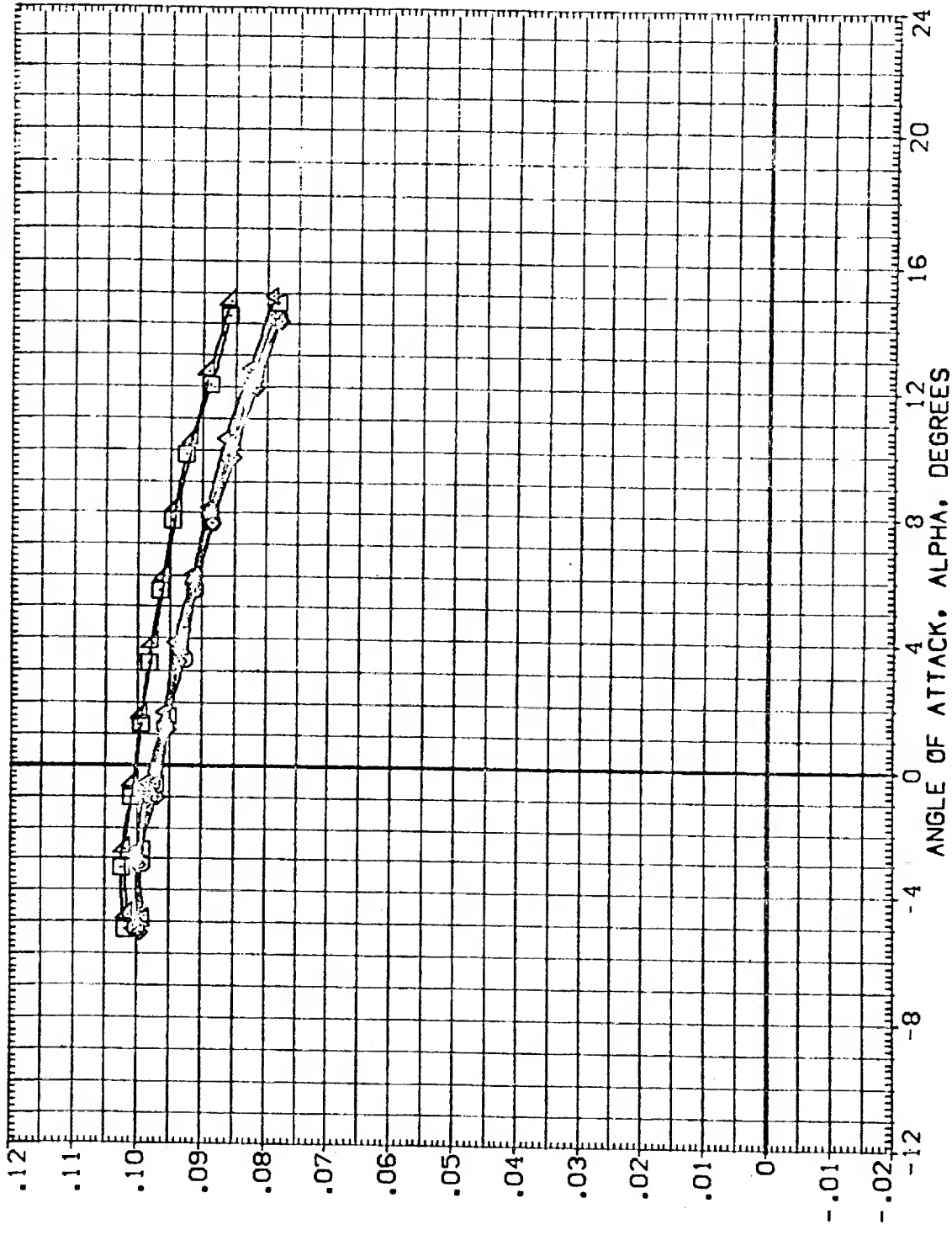


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .8053 SQ.FT.
(GER005)	ARC 66-709 OA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 OA59 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 OA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 OA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

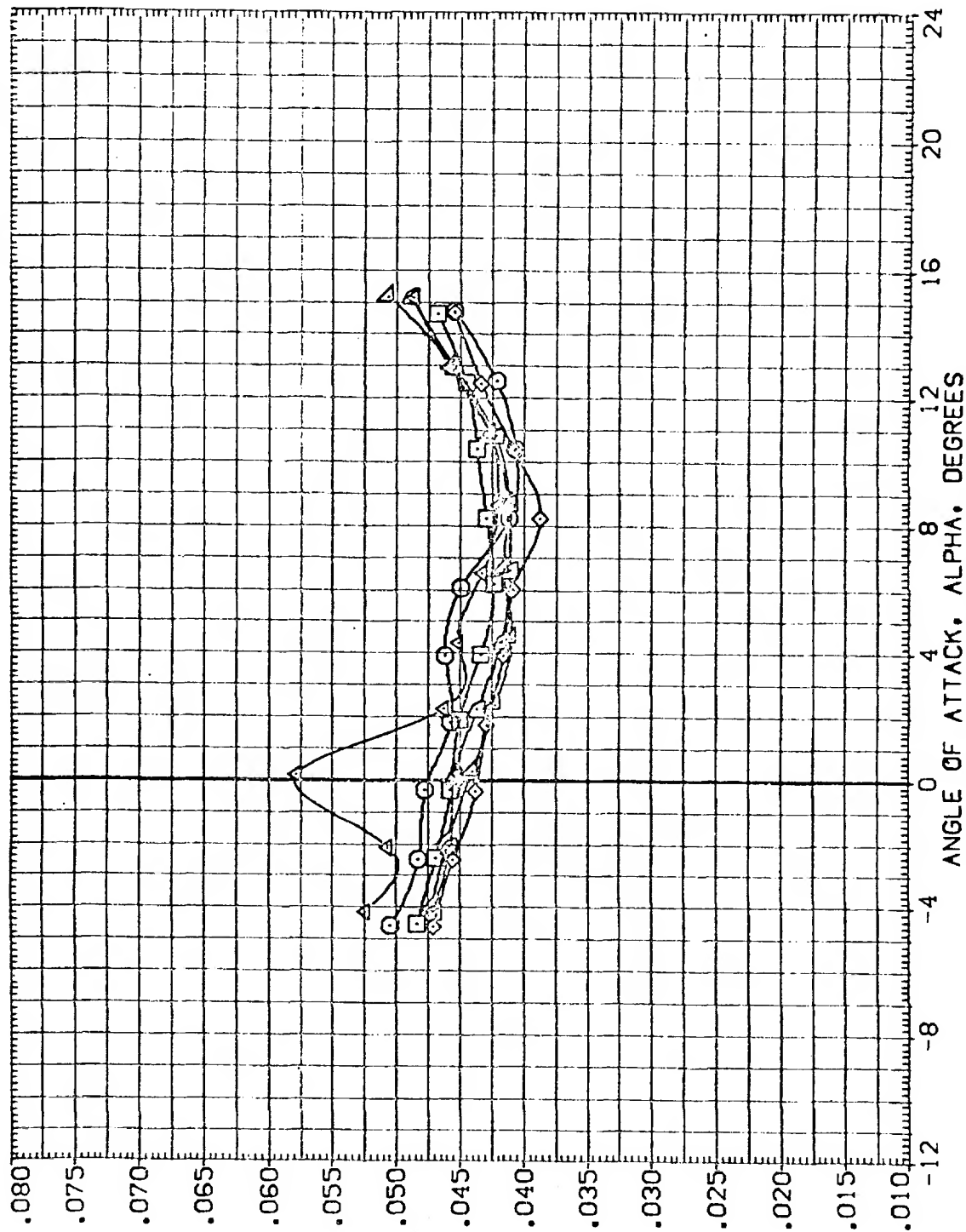


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 OA59 OA11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 OA59 OA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

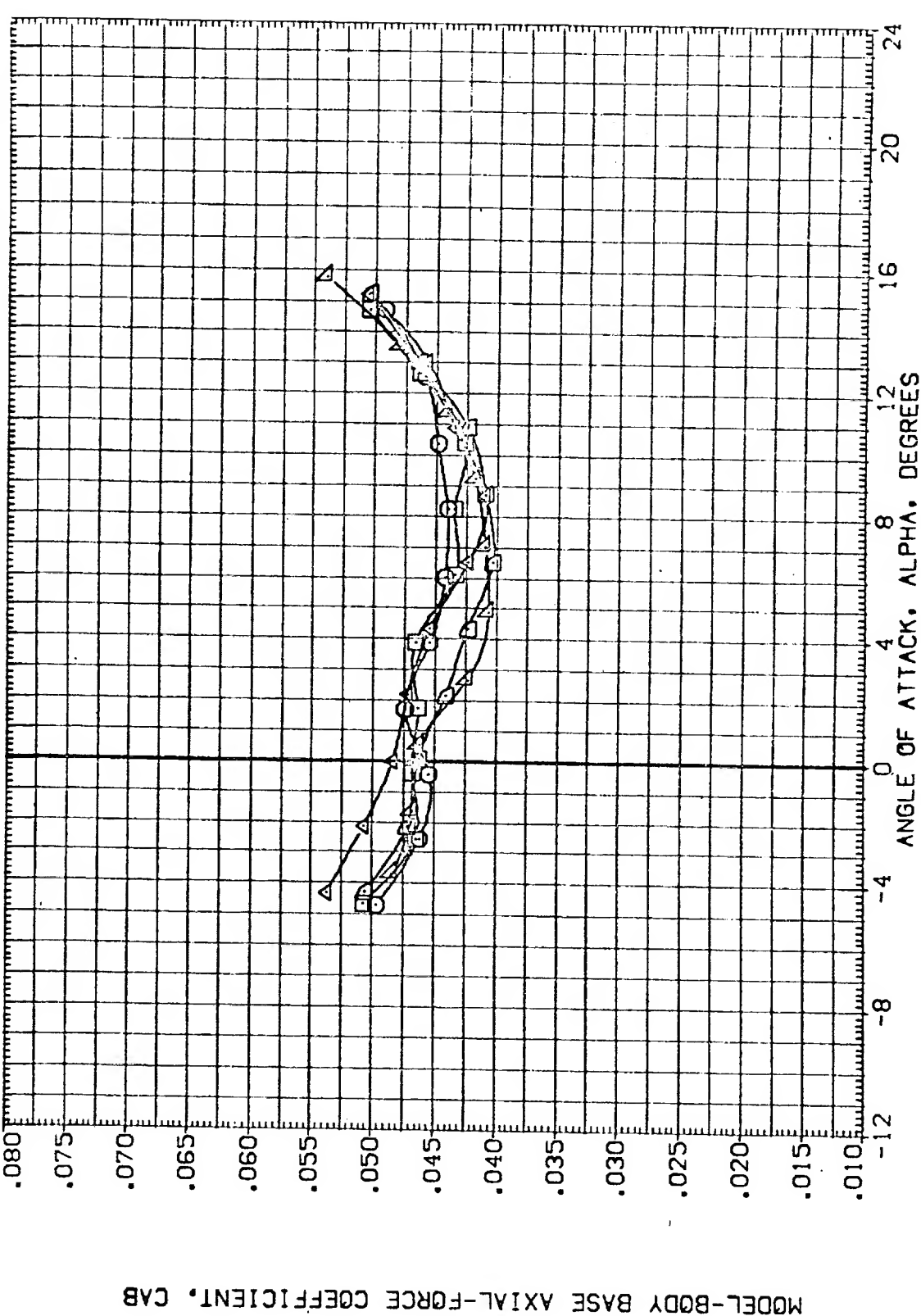
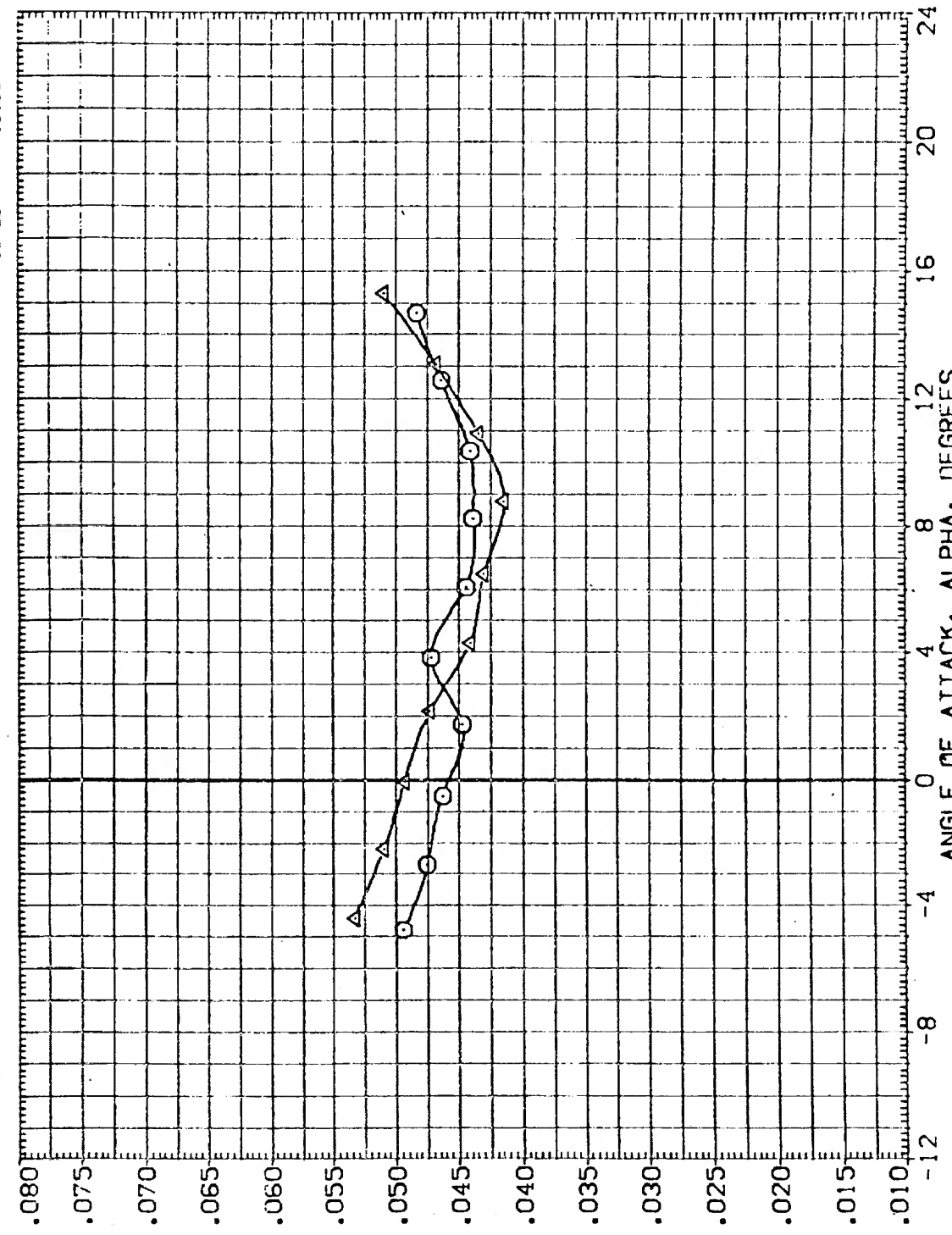


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY FLAP REFERENCE INFORMATION

(GER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER003)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0003 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 50.FT.
{GER005}	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	16.300	LREF .5935 FT.
{GER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
{GER012}	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
{GER014}	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{GER015}	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

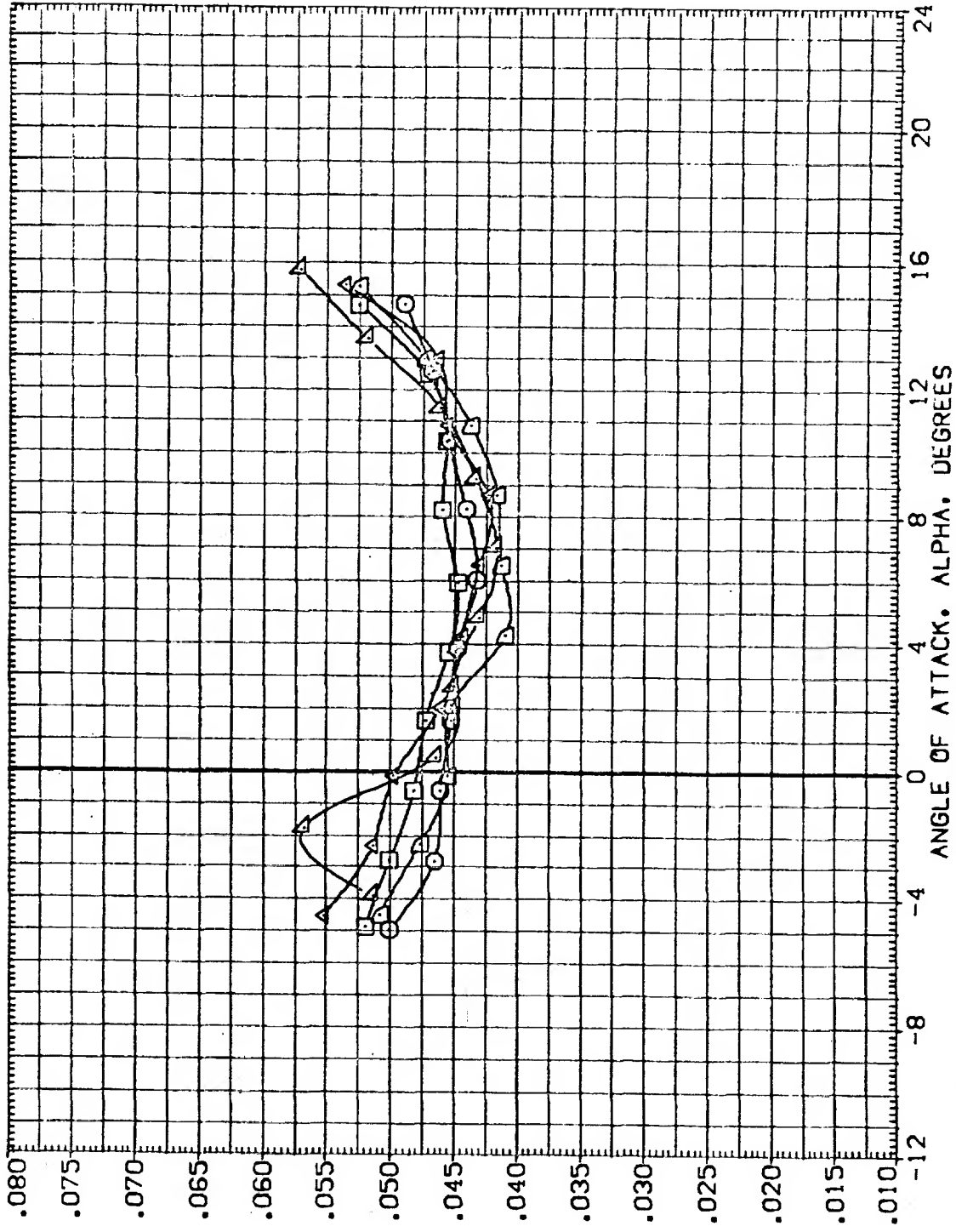


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 OAS9 0A111A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 OAS9 0A111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

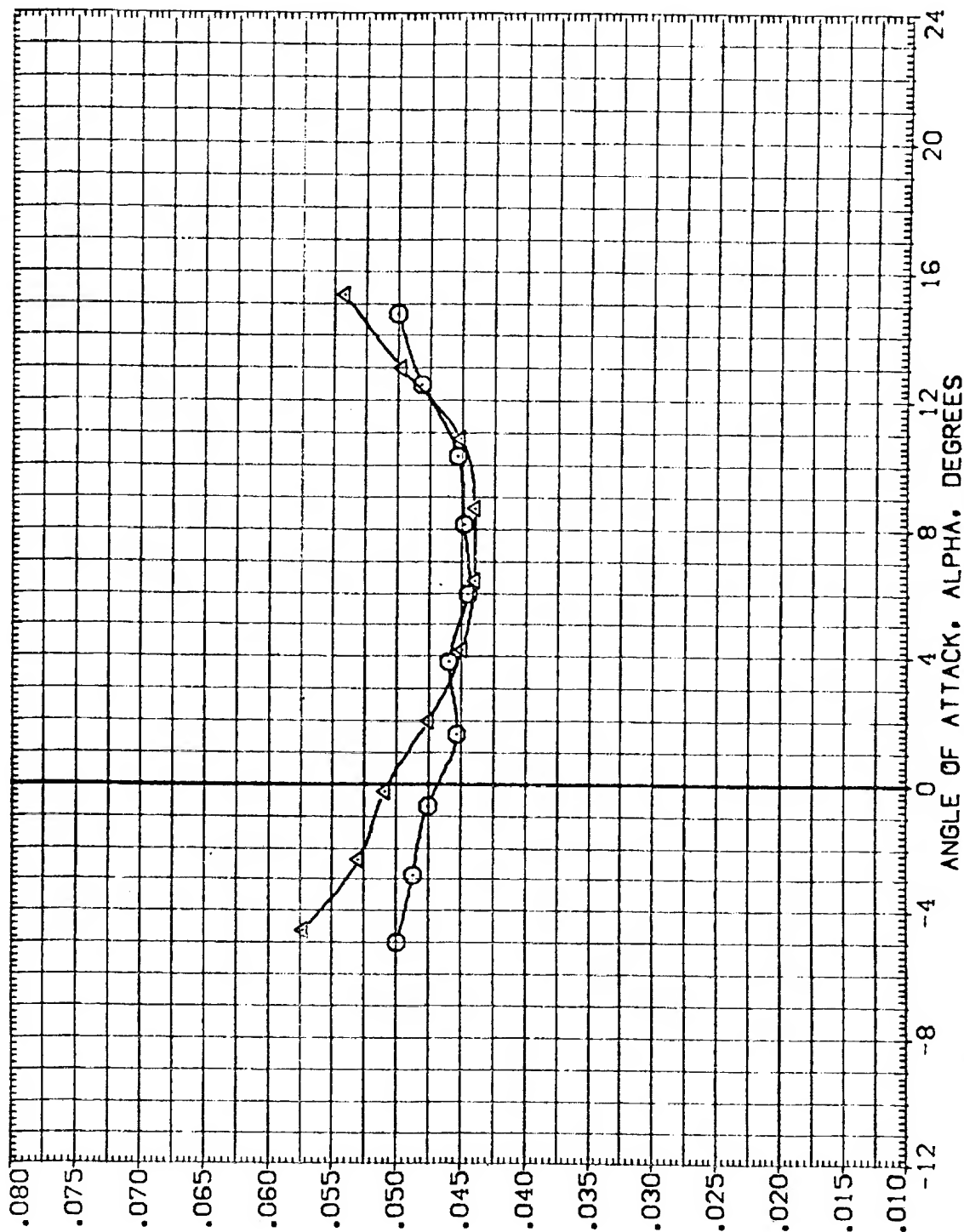


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{GER001}	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 59.FT.
{GER005}	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
{GER006}	ARC 66-709 0A59 DAI1A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 IN.
{GER012}	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{GER014}	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	.000	-16.300	YMRP .0000 IN.
{GER015}	ARC 66-709 0A59 DAI1A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

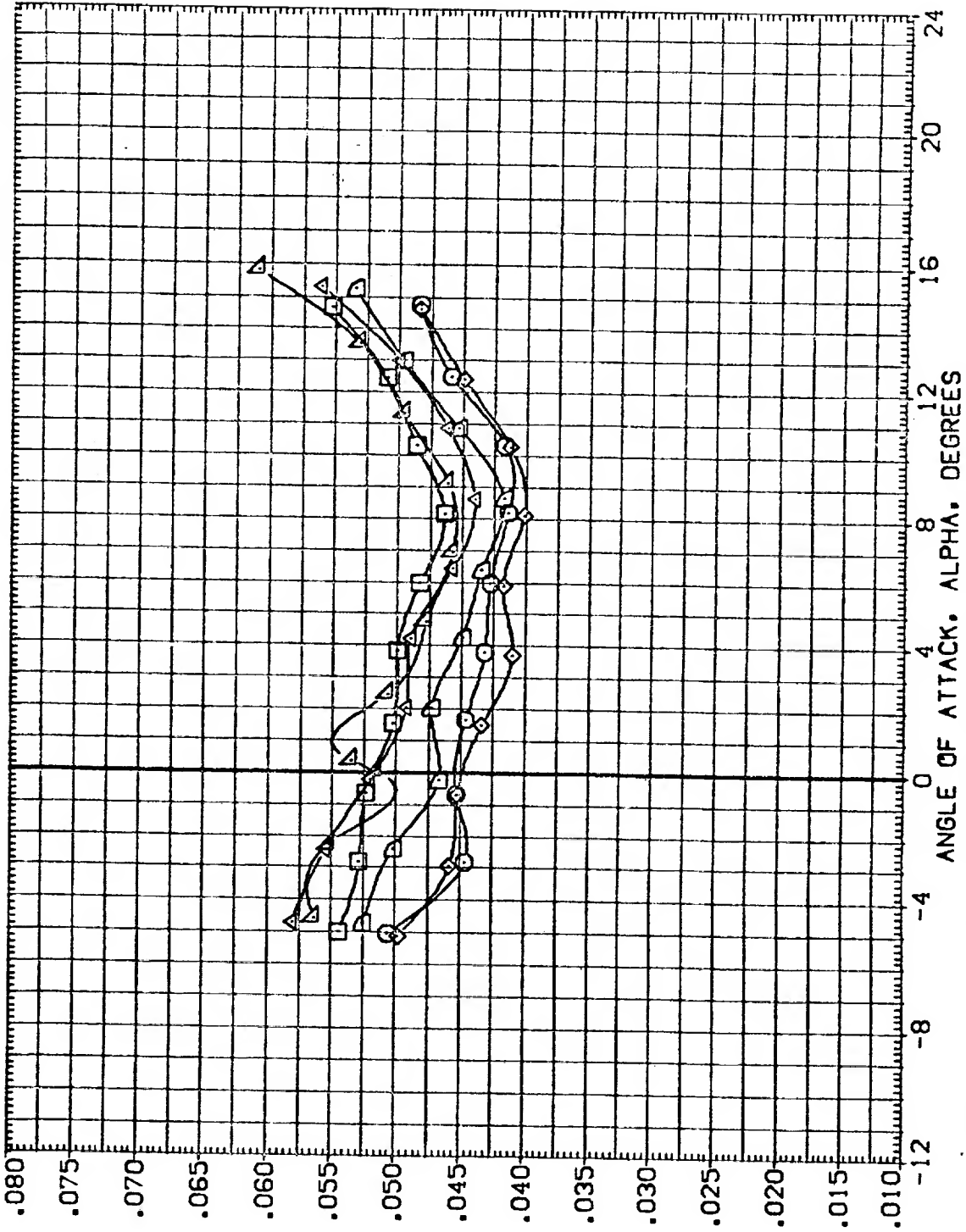
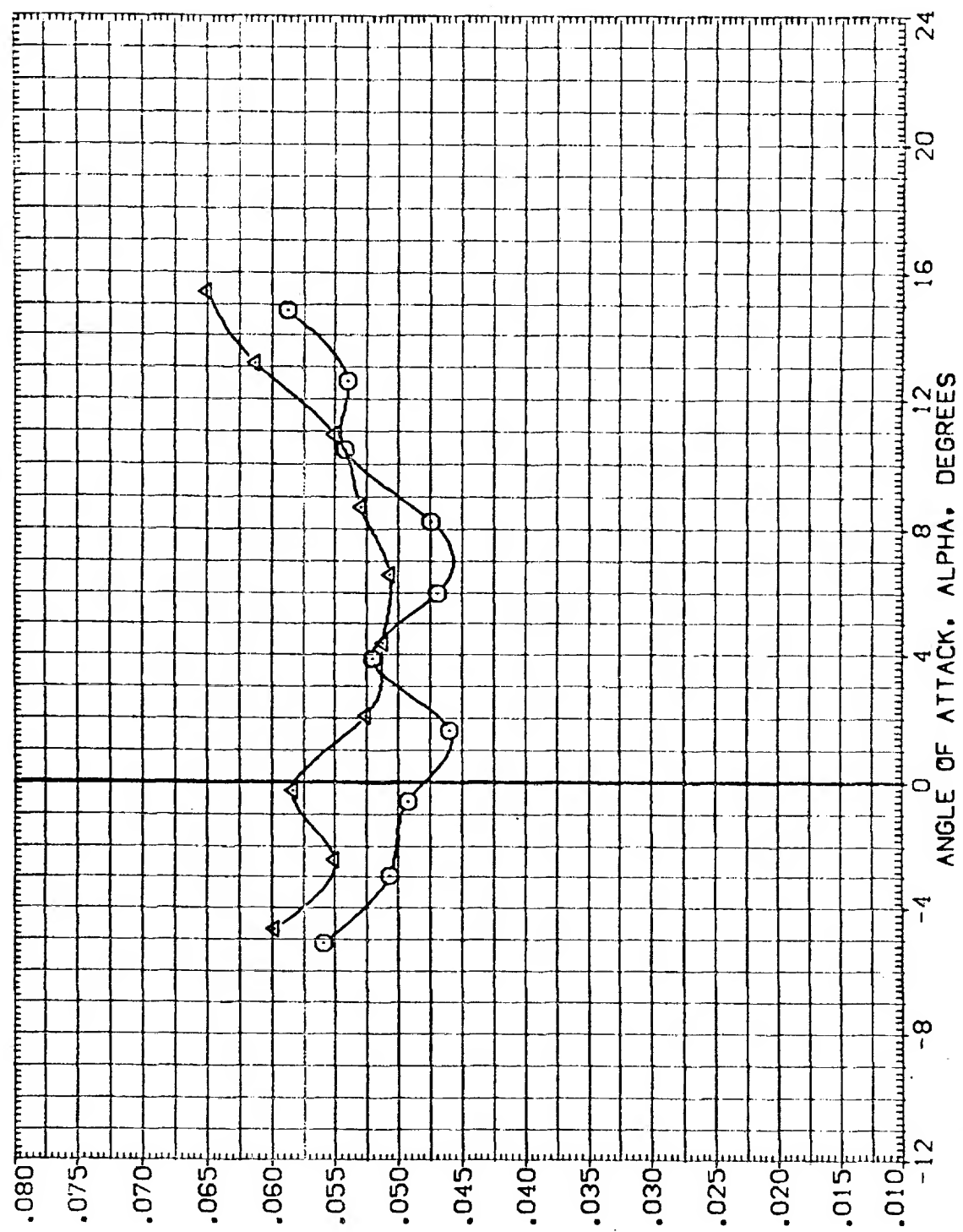


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(GER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150



MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

MODEL-BODY BASE AXIAL-FORCE COEFFICIENT, CAB
 (GER001)
 (GER005)
 (GER006)
 (GER012)
 (GER014)
 (GER015)
 DATA INFORMATION DESCRIPTION
 ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STING
 ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STING
 ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STING
 ARC 66-709 D459 D411A-(RS V8)+STRUT
 ARC 66-709 D459 D411A-(RS V8)+STRUT
 BETA .000 .000 .000 .000 .000 .000
 ELEVON .000 .000 .000 .000 .000 .000
 BOF-LAP -11.700 -11.700 -11.700 -11.700 -11.700 -11.700
 REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5835 FT.
 BREF 1.1710 FT.
 XMRP 12.6235 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

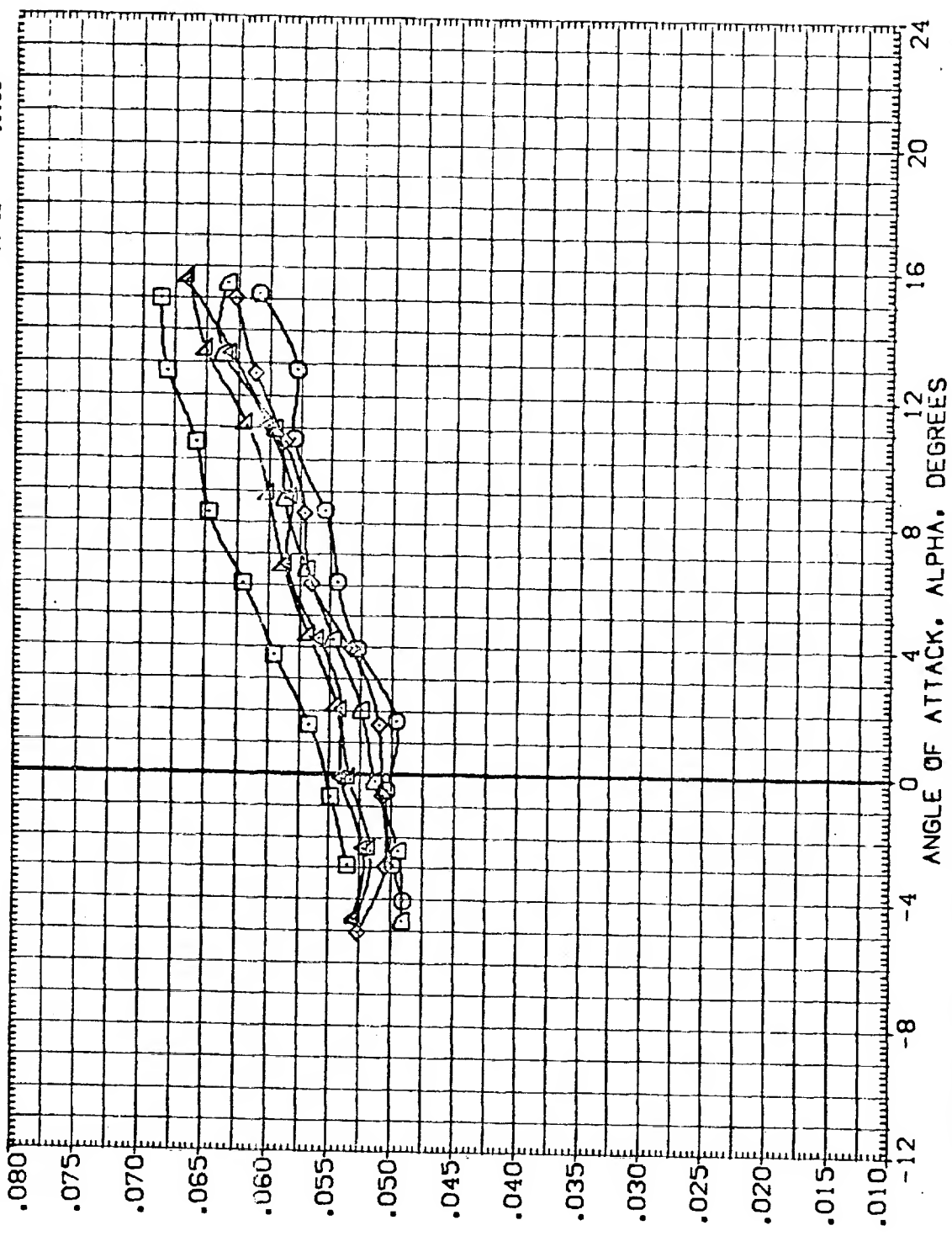


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(GER005)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT+DUM STAG	.000	.000	16.300	LREF .5935 FT.
(GER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(GER012)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(GER014)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(GER015)	ARC 66-709 QAS9 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE -.3750 IN.

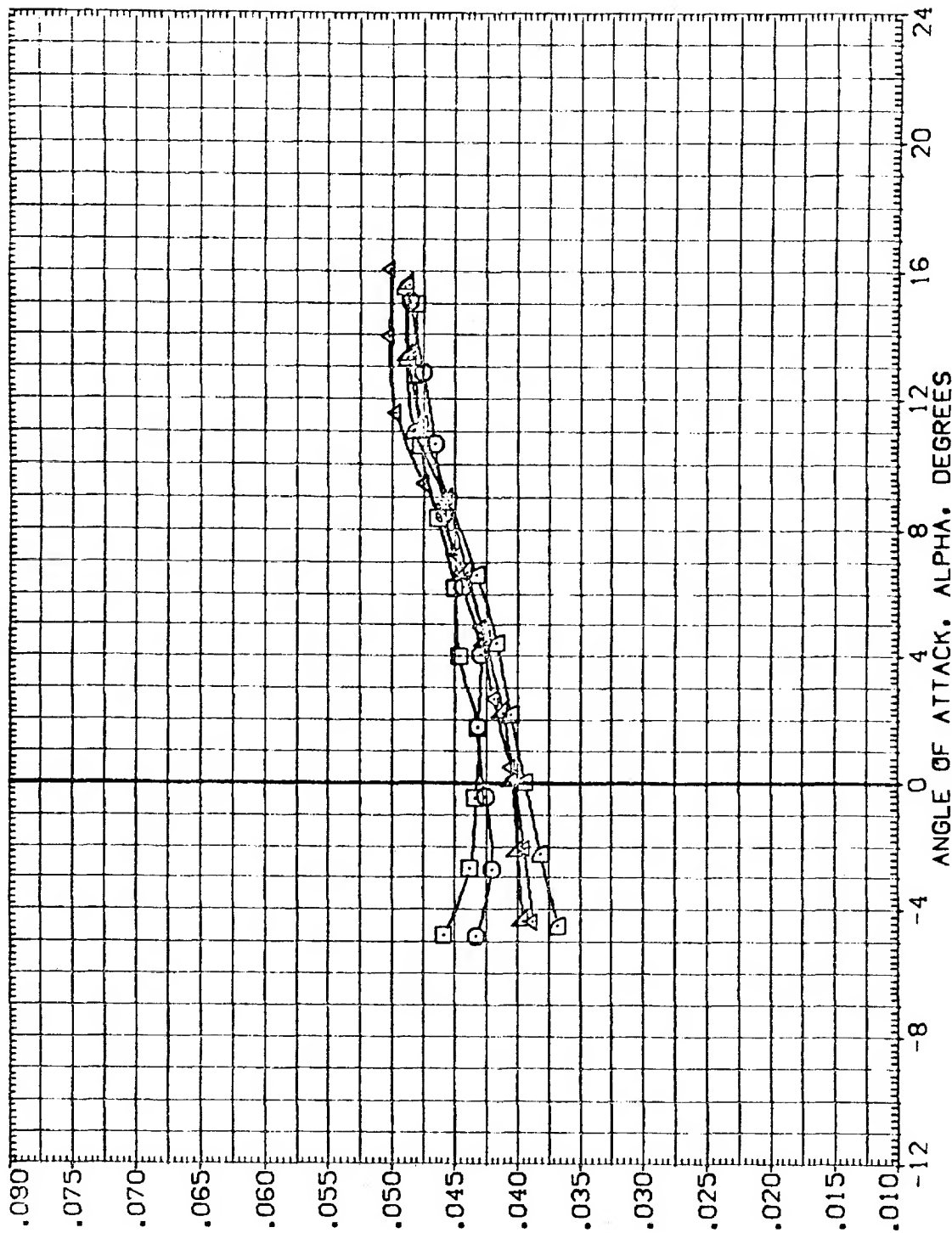


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(GER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50. FT.
(GER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(GER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	.000	BREF 1.1710 FT.
(GER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(GER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(GER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.

SCALE .0150

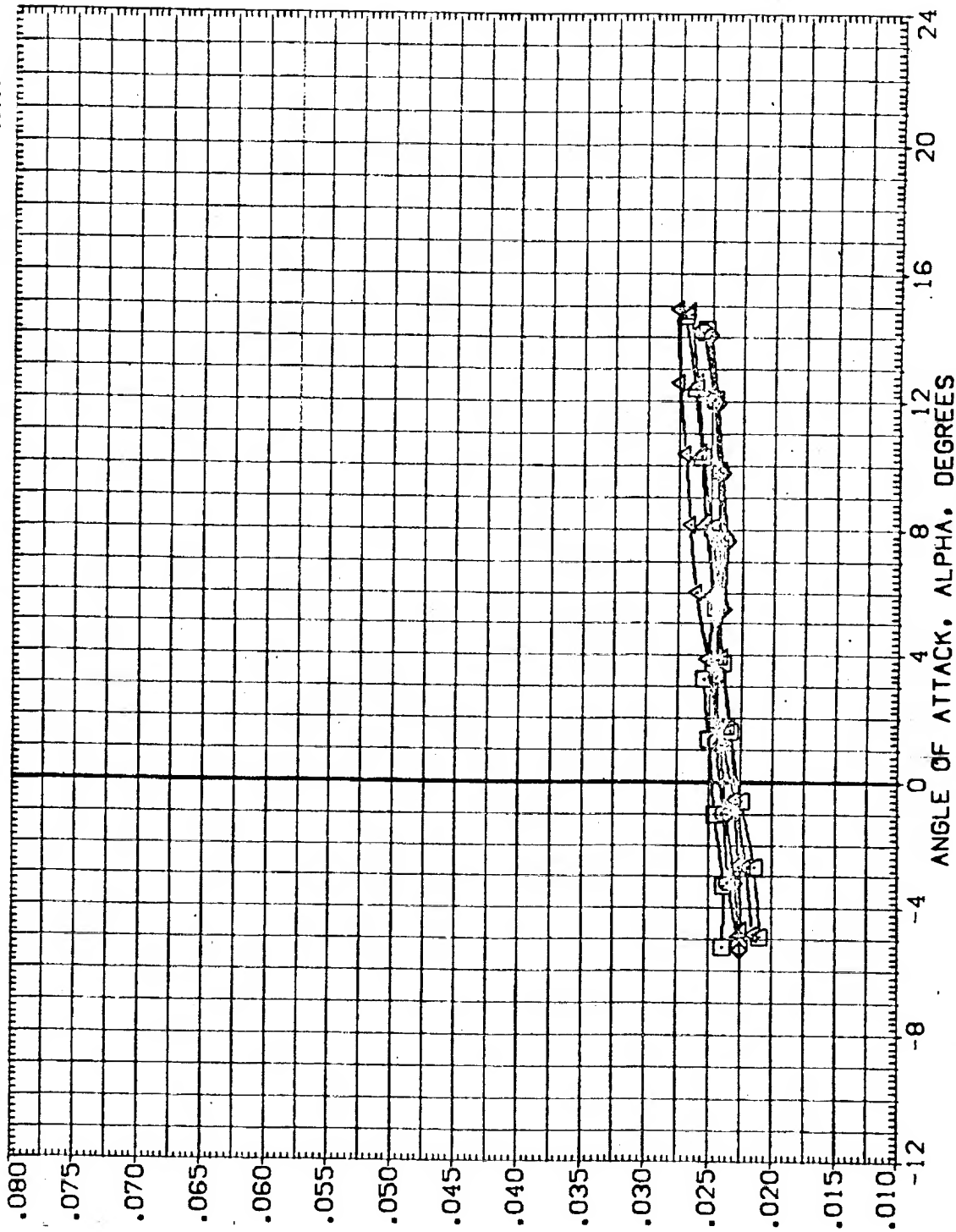


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

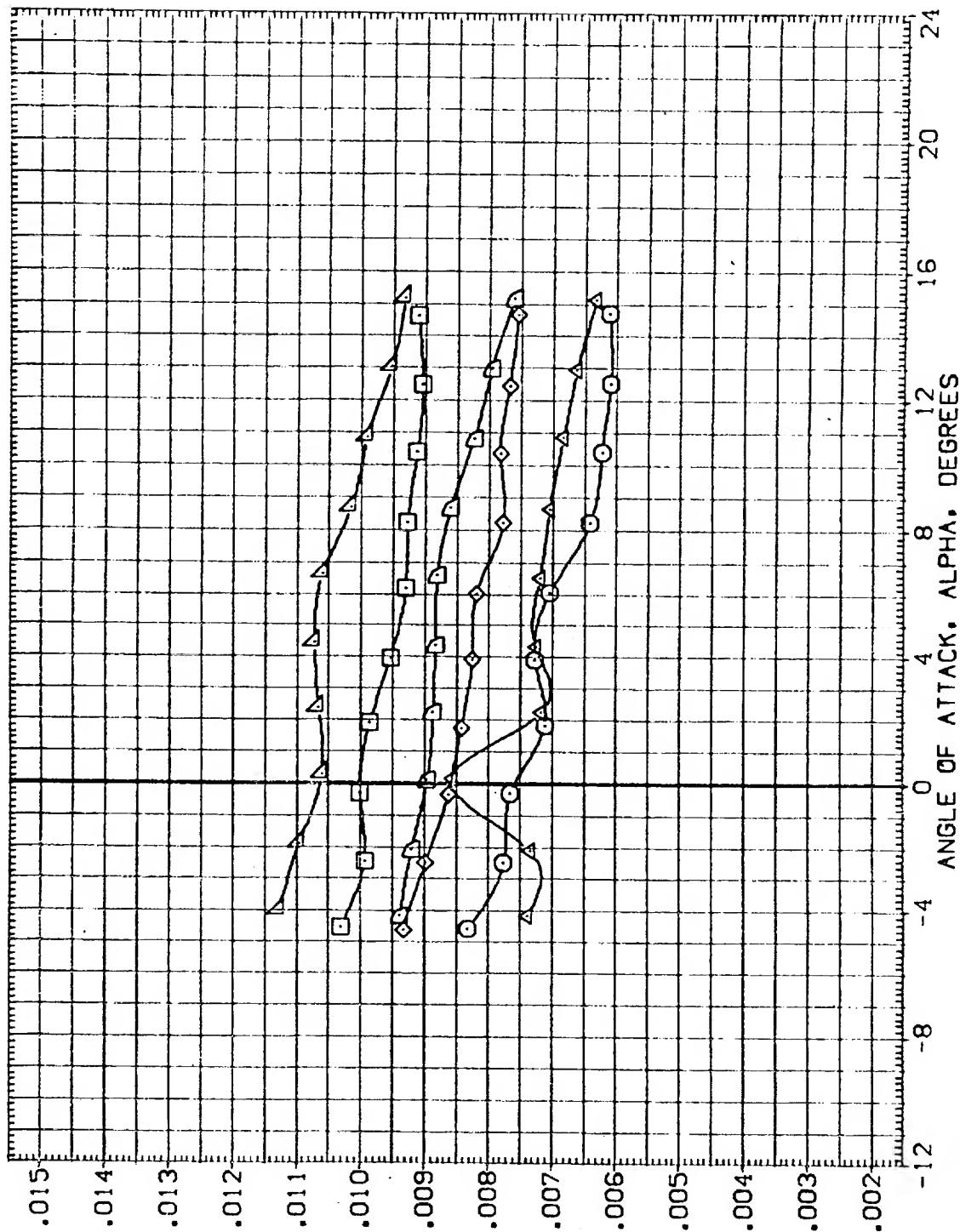


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 D459 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 D459 DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 D459 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 D459 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 D459 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

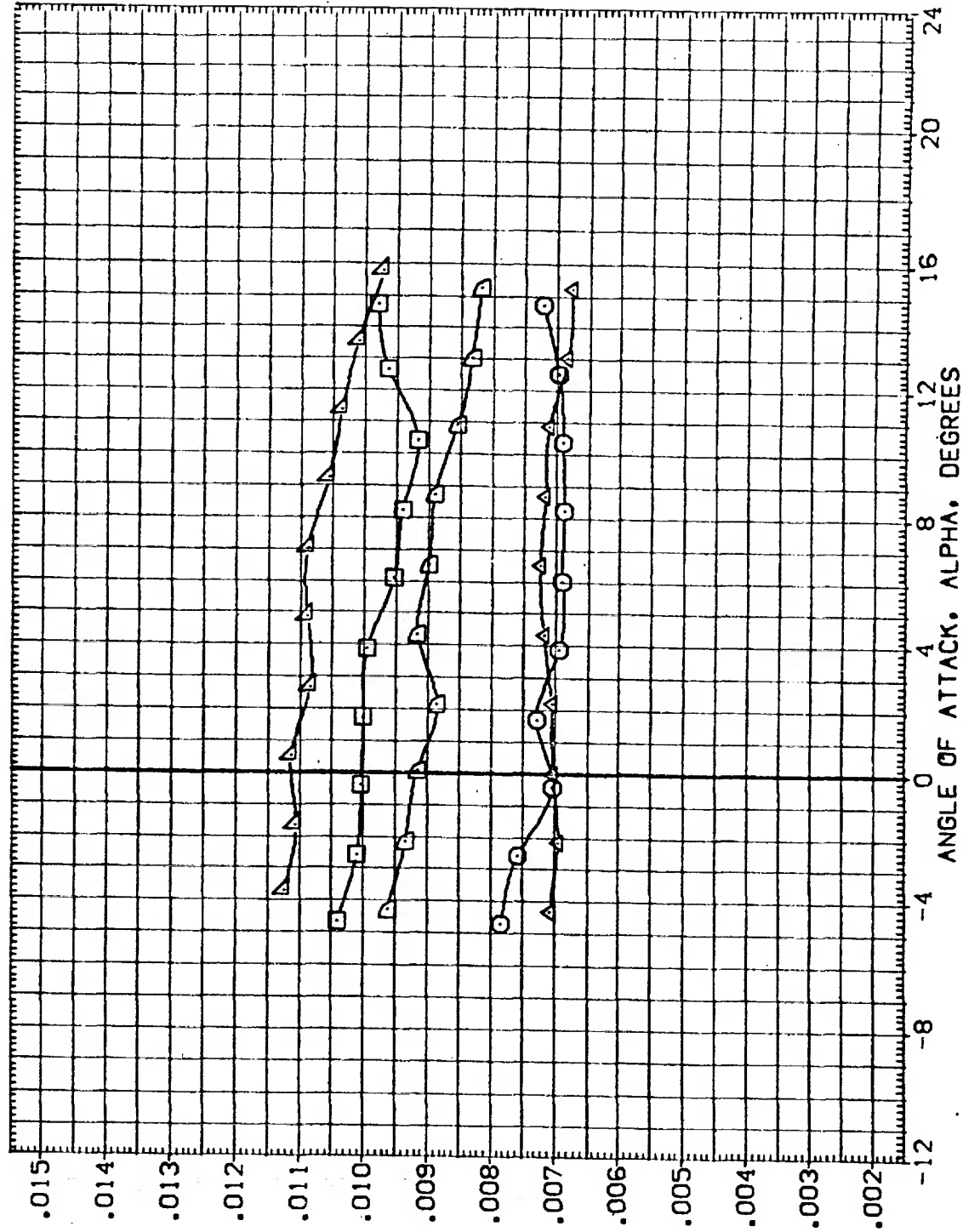


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+OUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	SCALE .0150

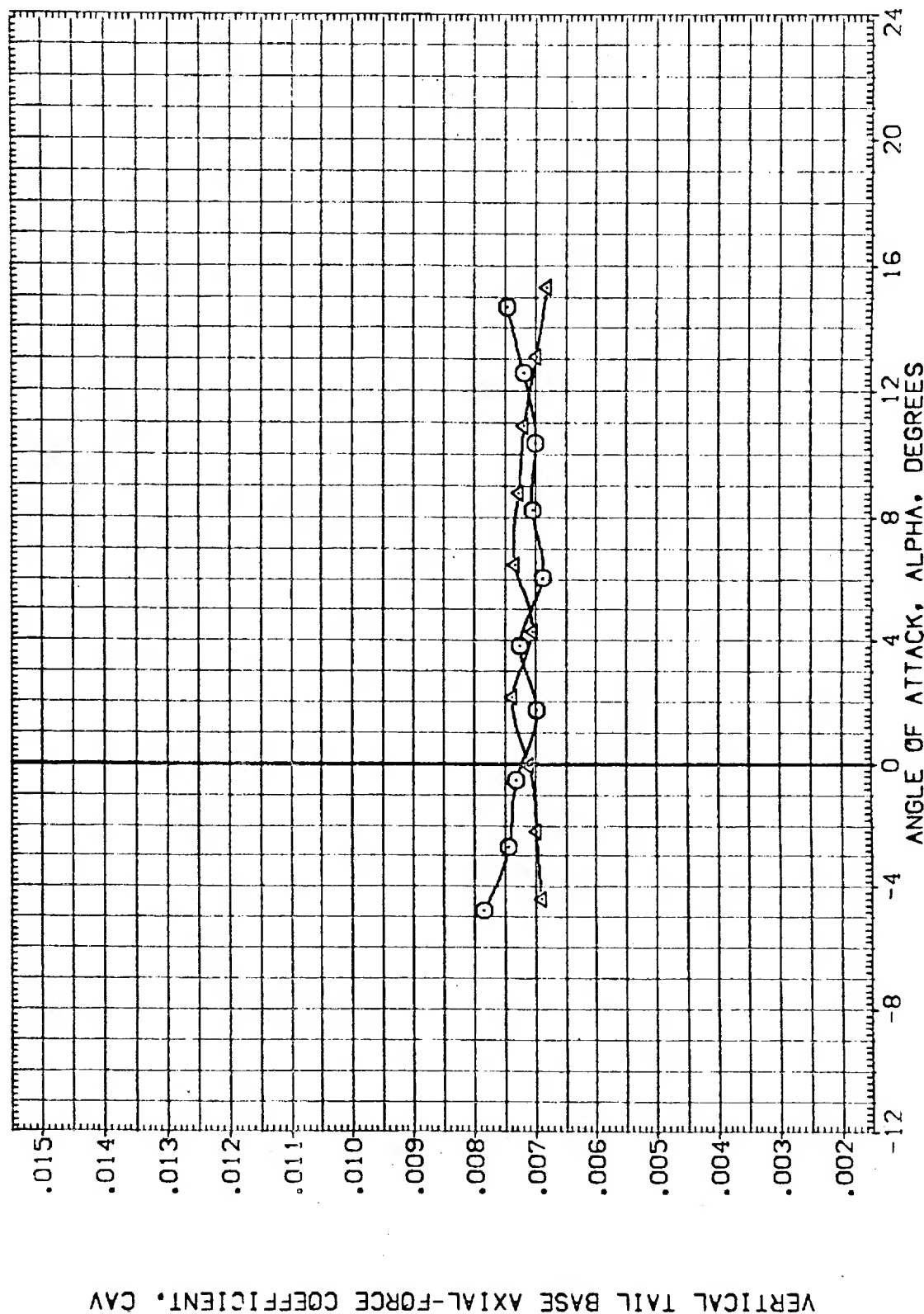


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJMACH = .75

VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 OAS9 DA11A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

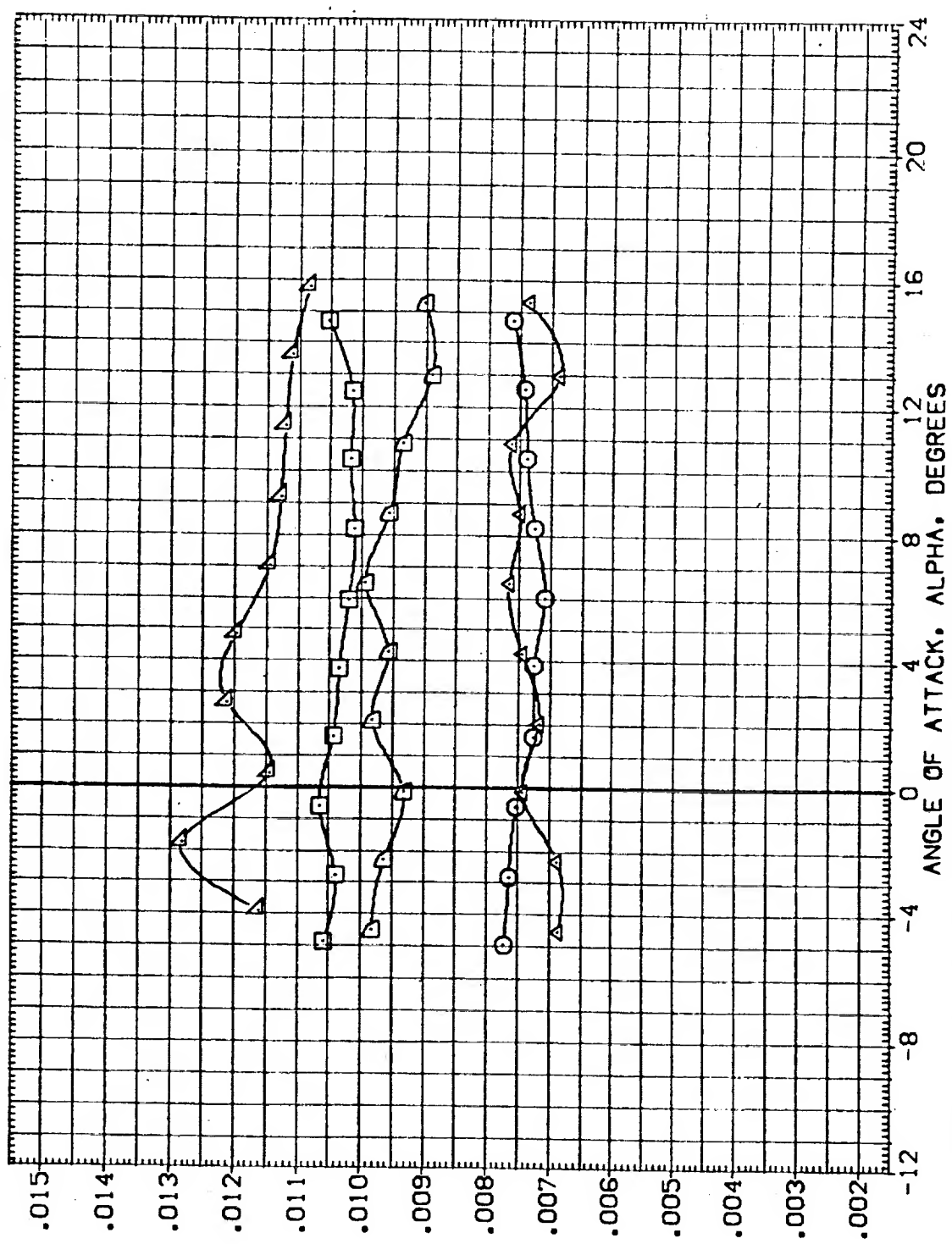


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(O)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 65-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 65-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRF 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRF .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRF -.3750 IN.
					SCALE .0150

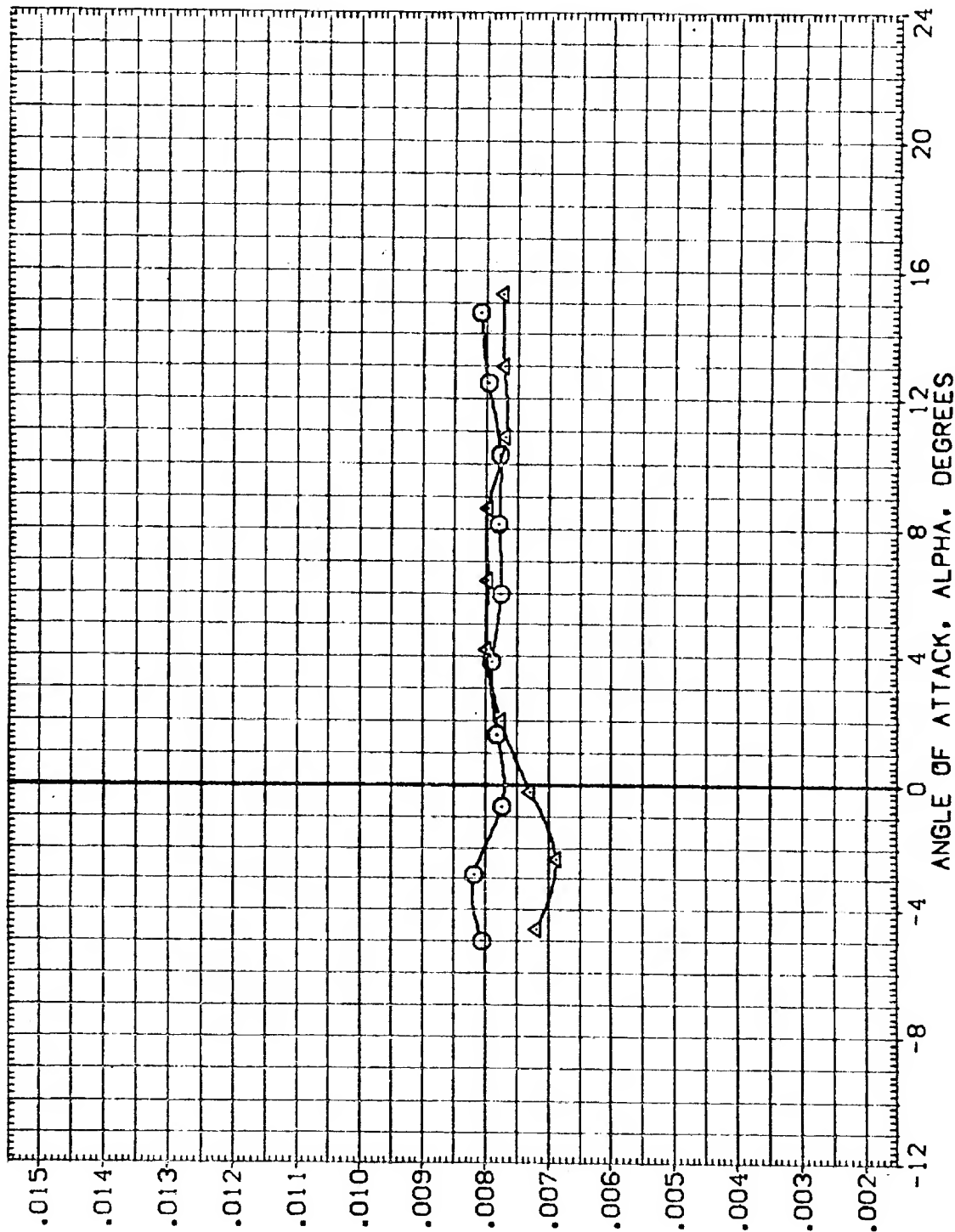


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

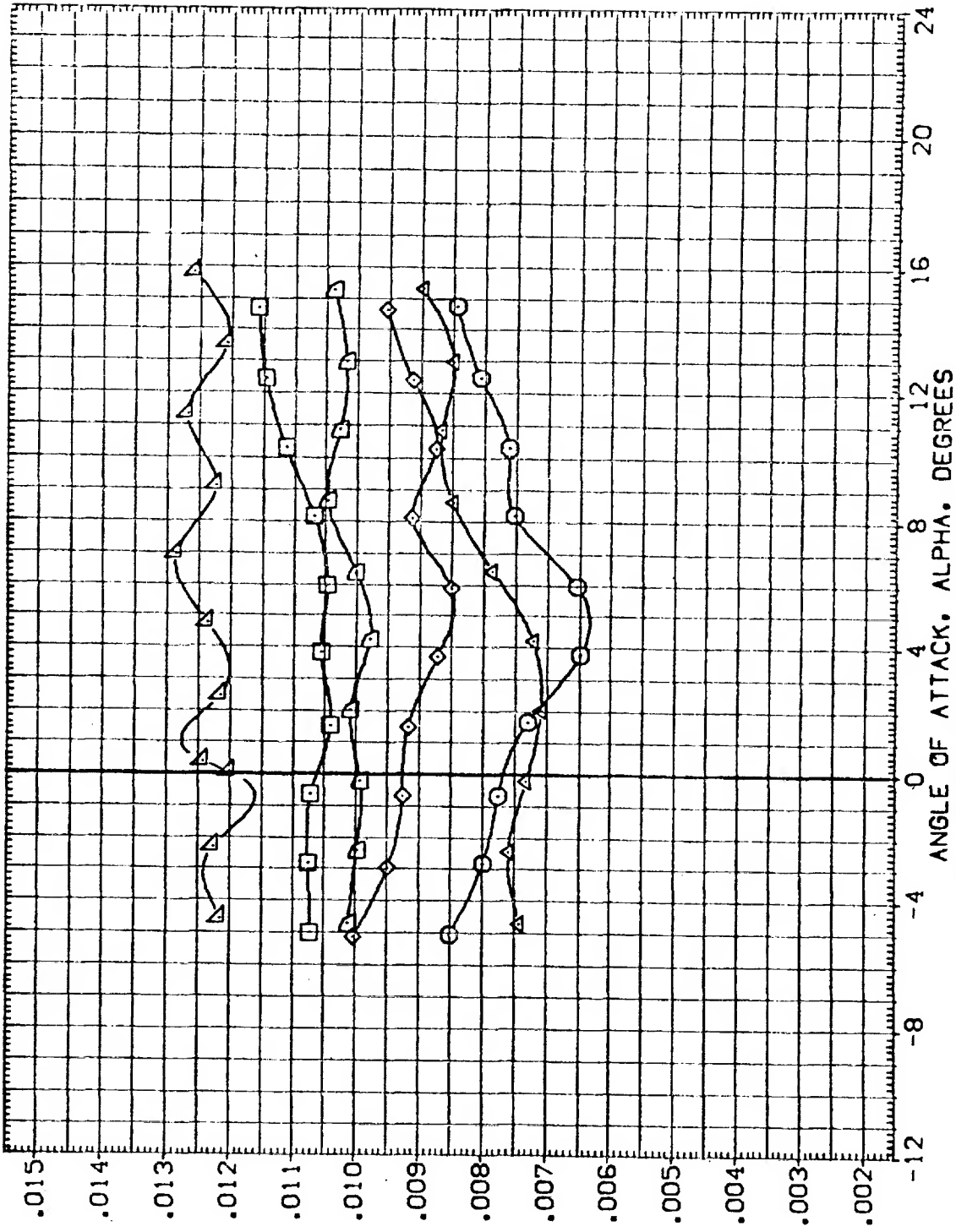


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(FDMACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY LAP

(BER001) ARC 66-709 QAS9 DALLA-(N24 R5 V8)+STRUT+DUM STNG .000 .000 -11.700

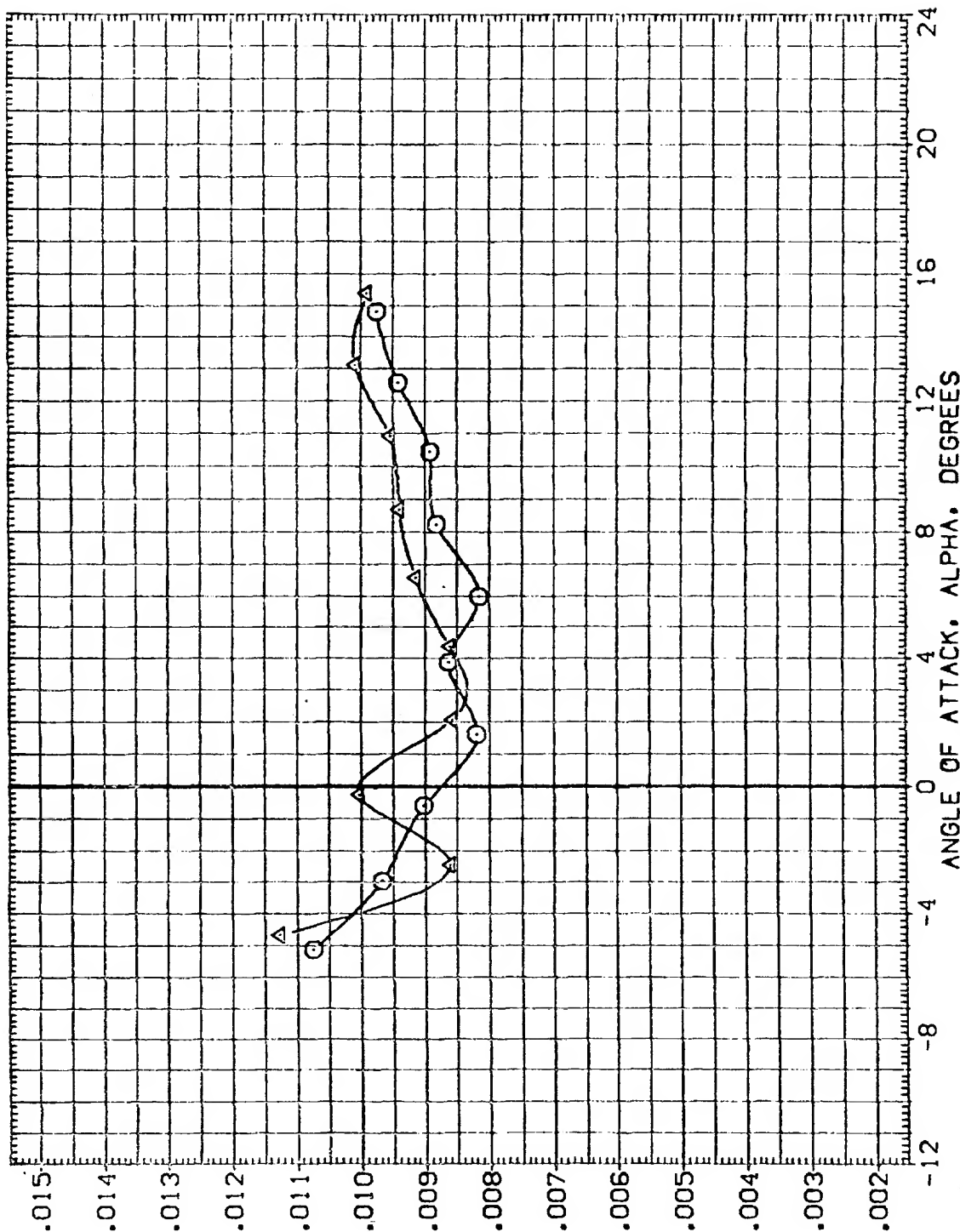
(BER005) DATA NOT AVAILABLE .000 .000 16.300

(BER006) DATA NOT AVAILABLE .000 .000 .000

(BER012) ARC 66-709 QAS9 DALLA-(R5 V8)+STRUT .000 .000 -11.700

(BER014) DATA NOT AVAILABLE .000 .000 16.300

(BER015) DATA NOT AVAILABLE .000 .000 .000



VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{BER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .5053 SO.FT.
{BER005}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
{BER006}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 FT.
{BER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{BER014}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP .0000 IN.
{BER015}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150

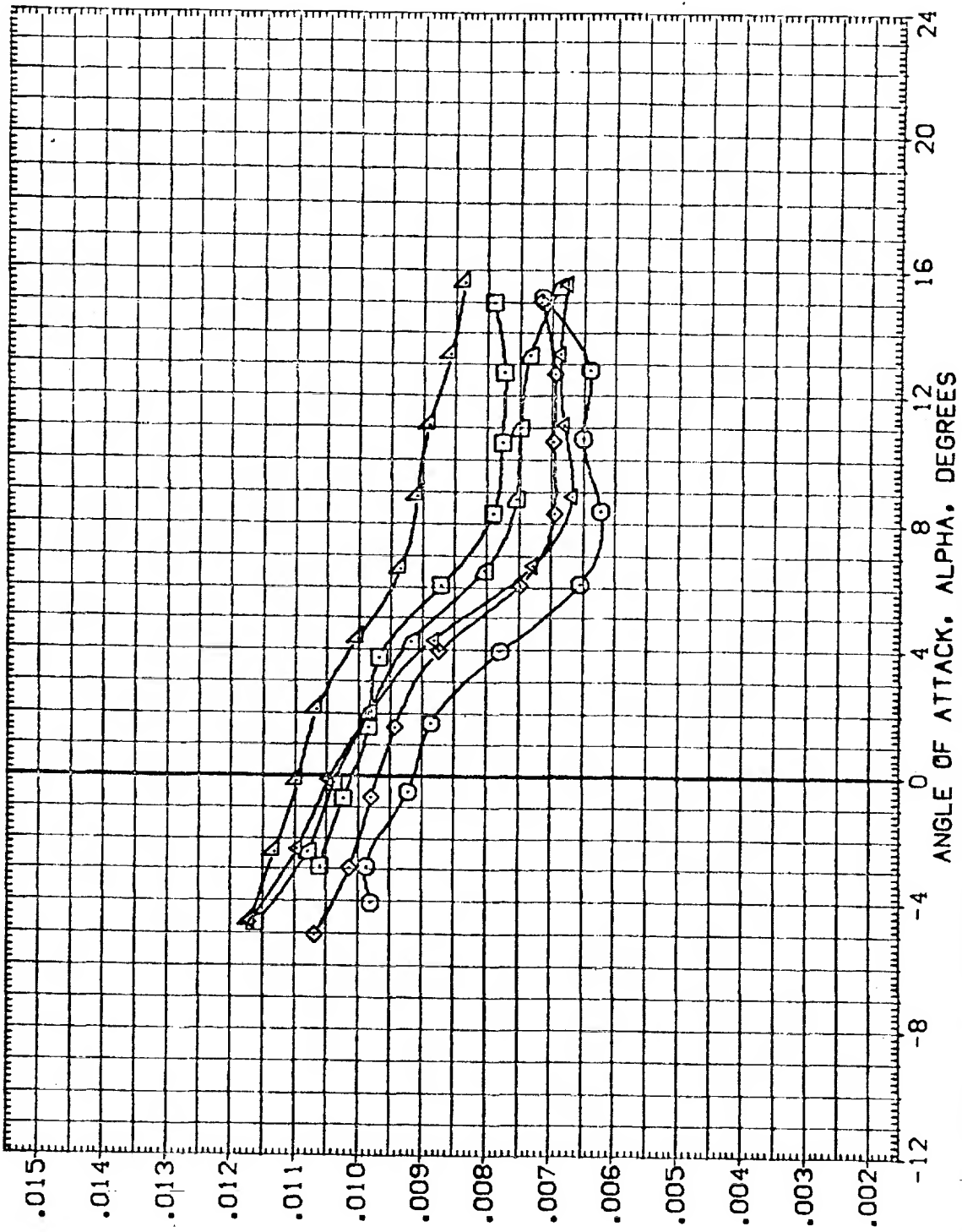


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BODY FLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BODY FLAP	REFERENCE INFORMATION
[BER001]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF 50.FT.
[BER005]	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF FT.
[BER006]	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
[BER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
[BER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
[BER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

VERTICAL TAIL BASE AXIAL-FORCE COEFFICIENT, CAV

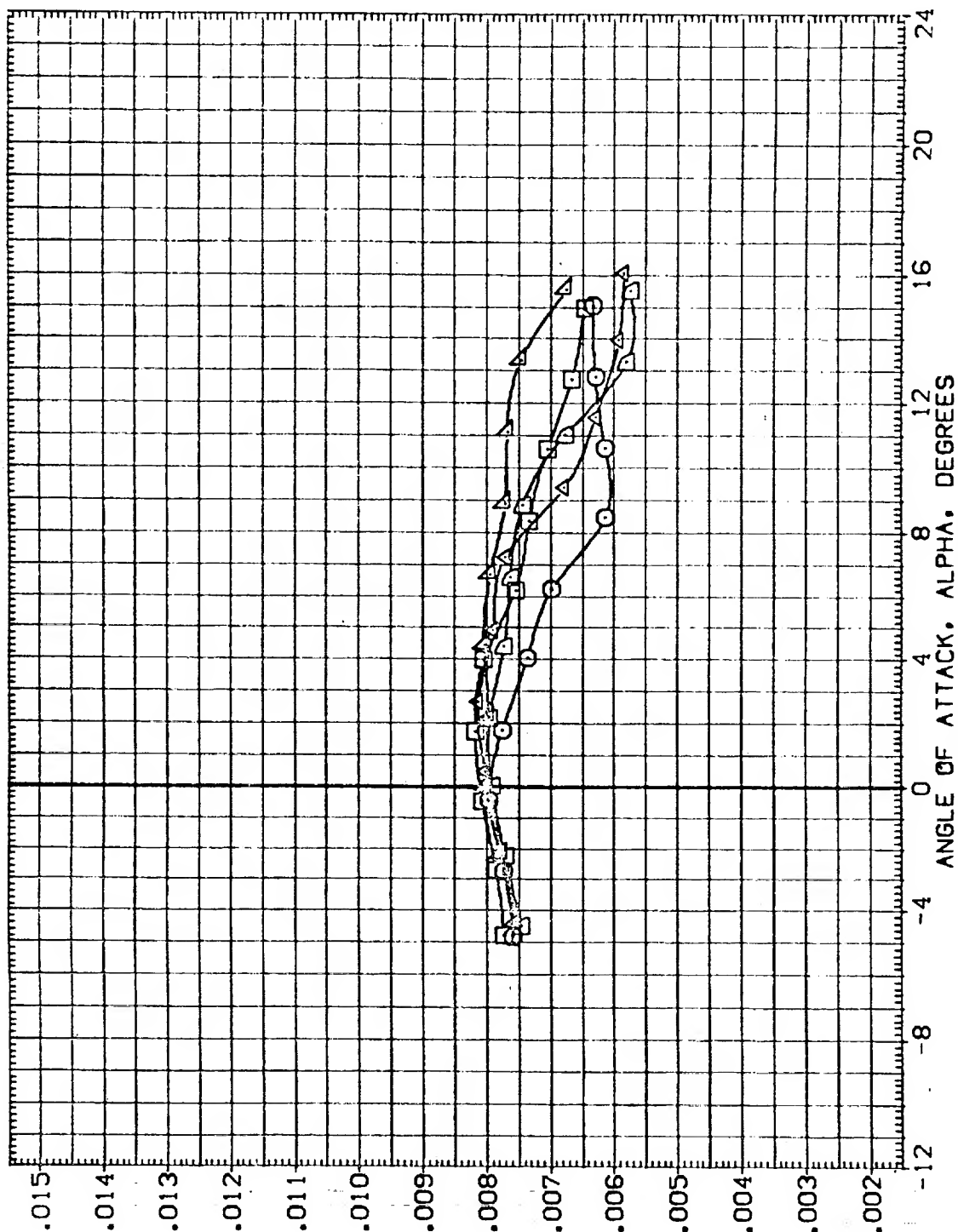


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

() MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF 50. FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF 59.35 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6235 IN.
(BER014)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

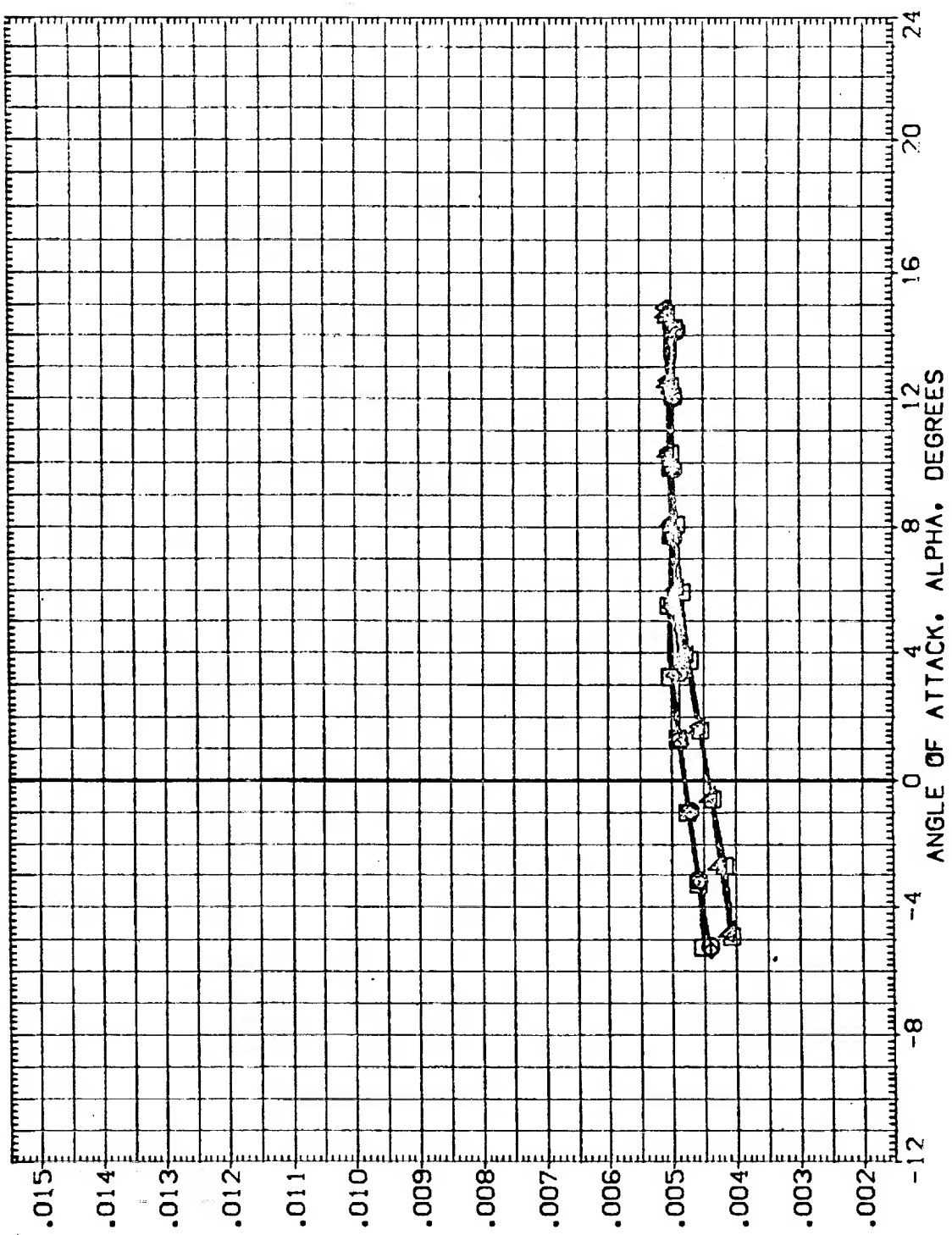
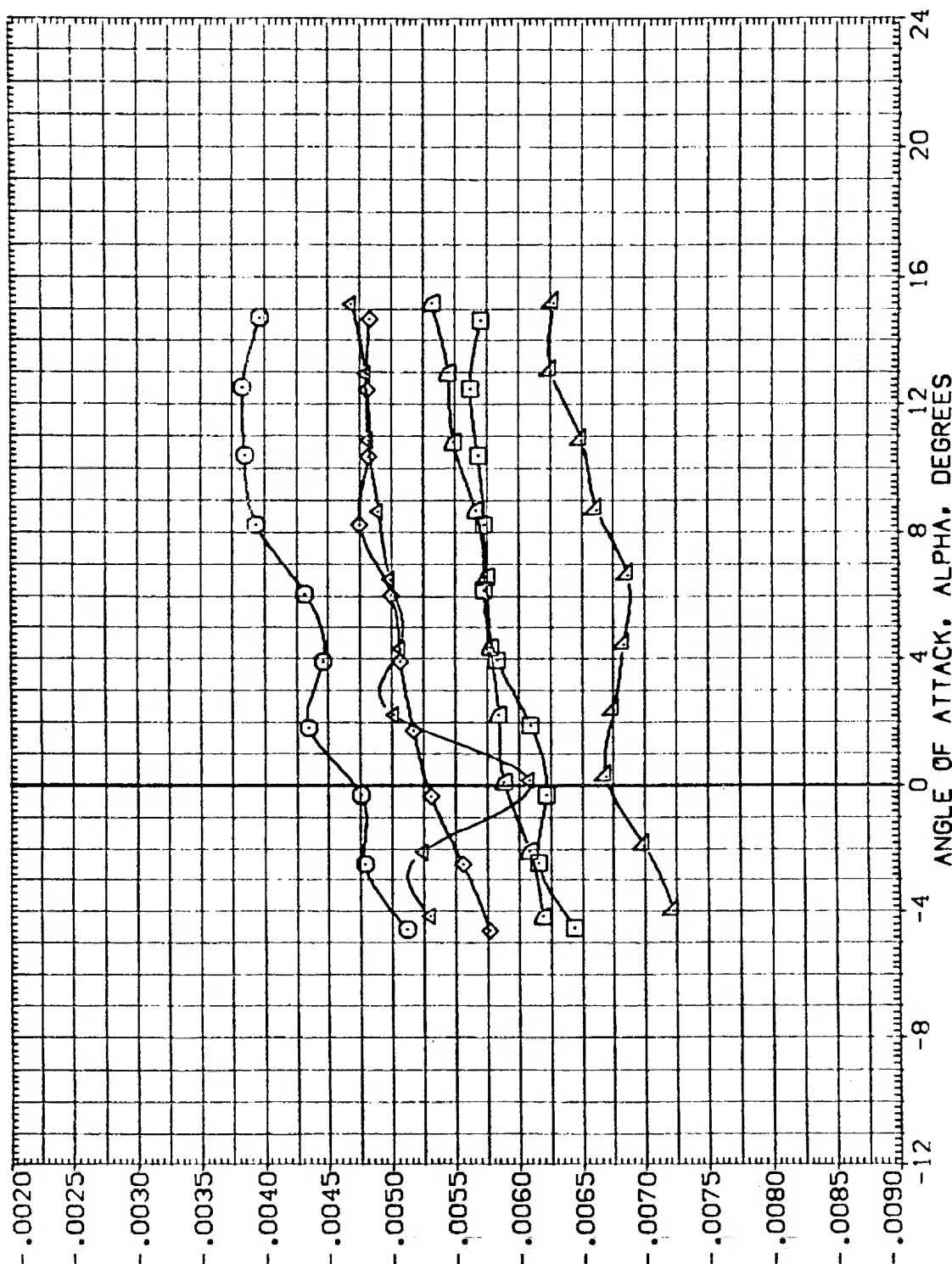


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81+STRUT+DUM STNG	.000	.000	-11.700	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81+STRUT	.000	.000	-11.700	ZMRP -.3750 IN.
					SCALE .0150



VERTICAL TAIL BASE NORMAL-FORCE COEFFICIENT, CNV

FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	SREF	SO.FT.
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	LREF	59.35
(BER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	BREF	1.1710
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	YMRP	12.6255
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	ZMRP	.0000
(BER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	SCALE	-.3750
(BER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000		.0150

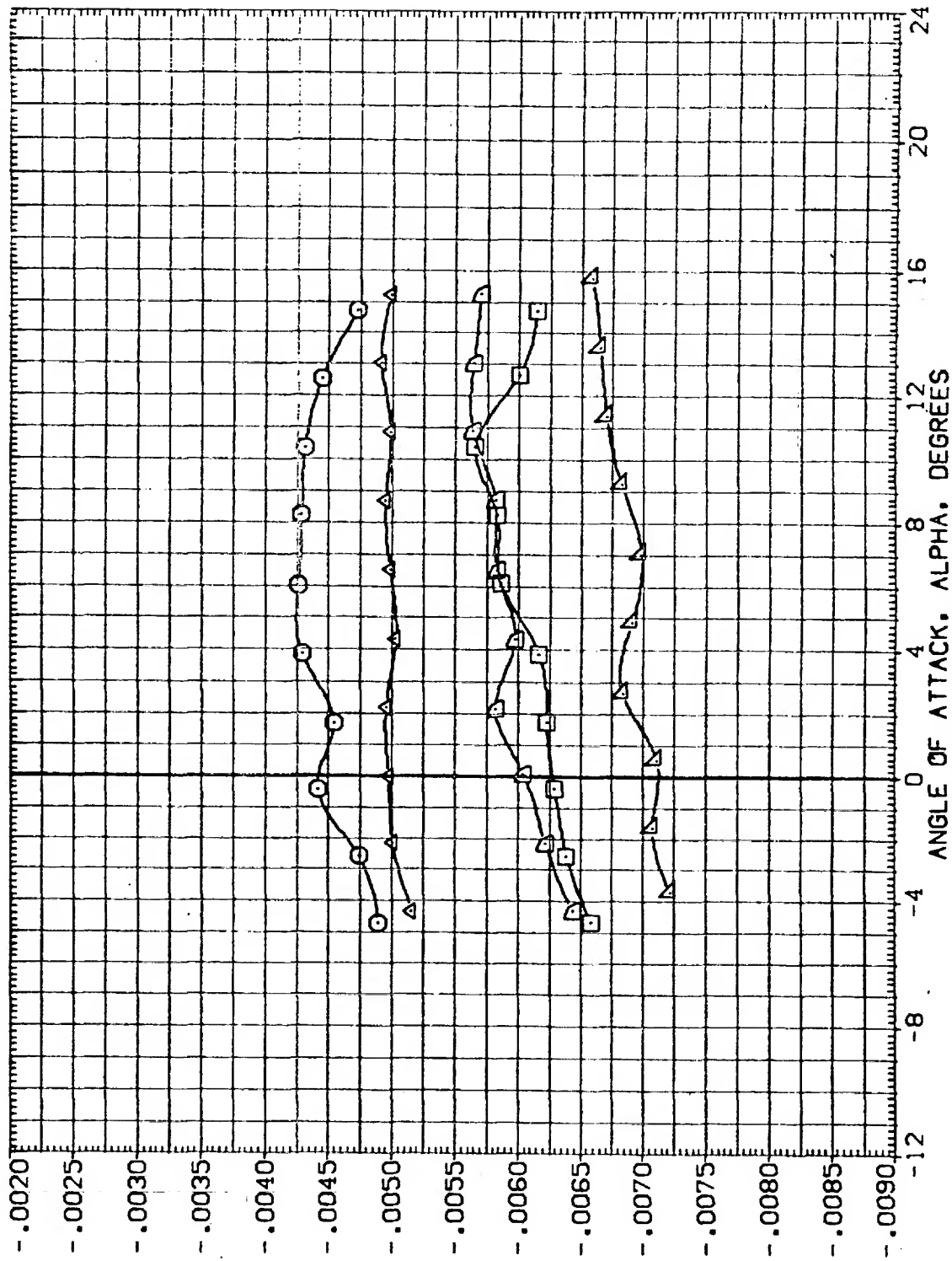


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

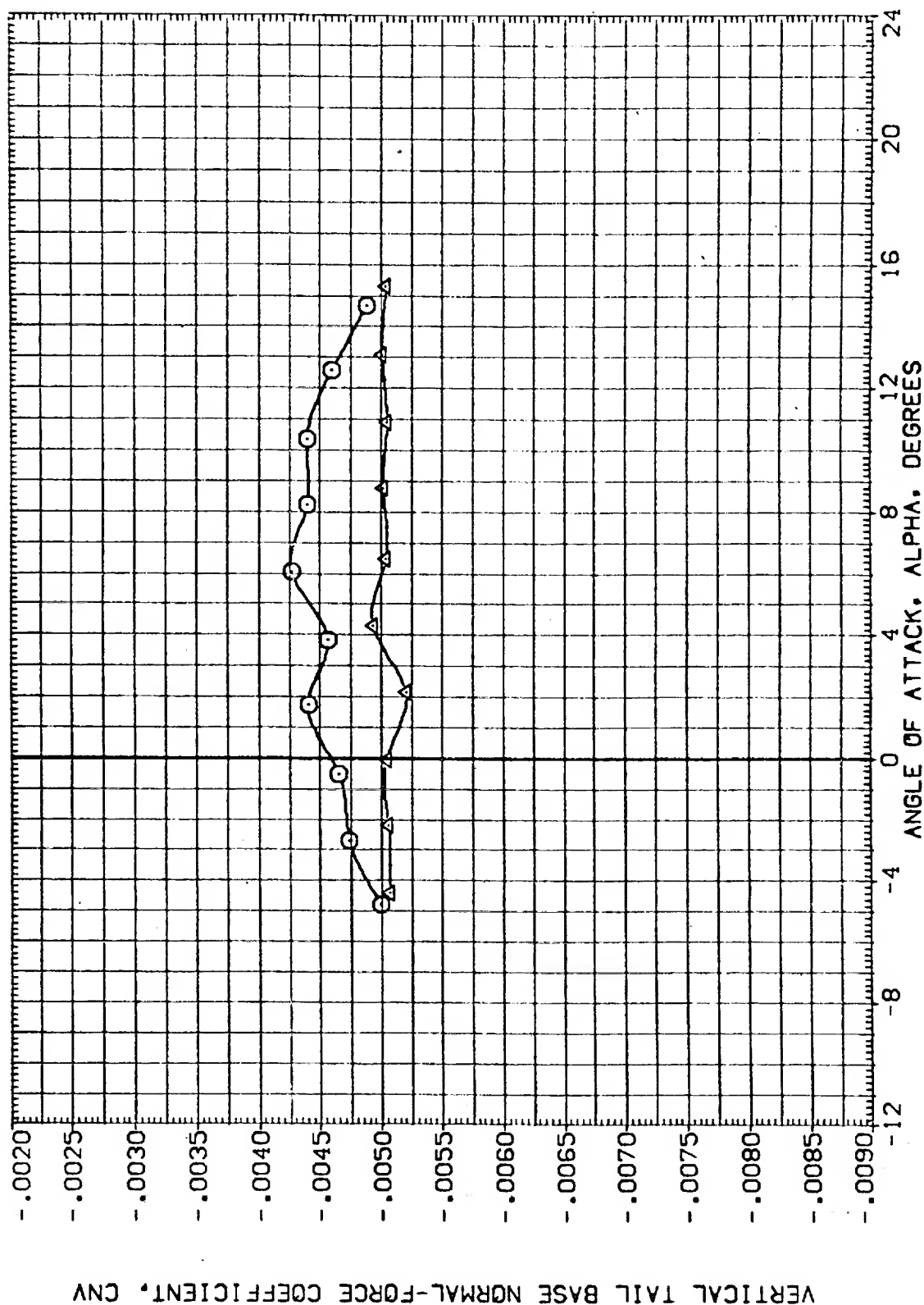


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-16.300	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

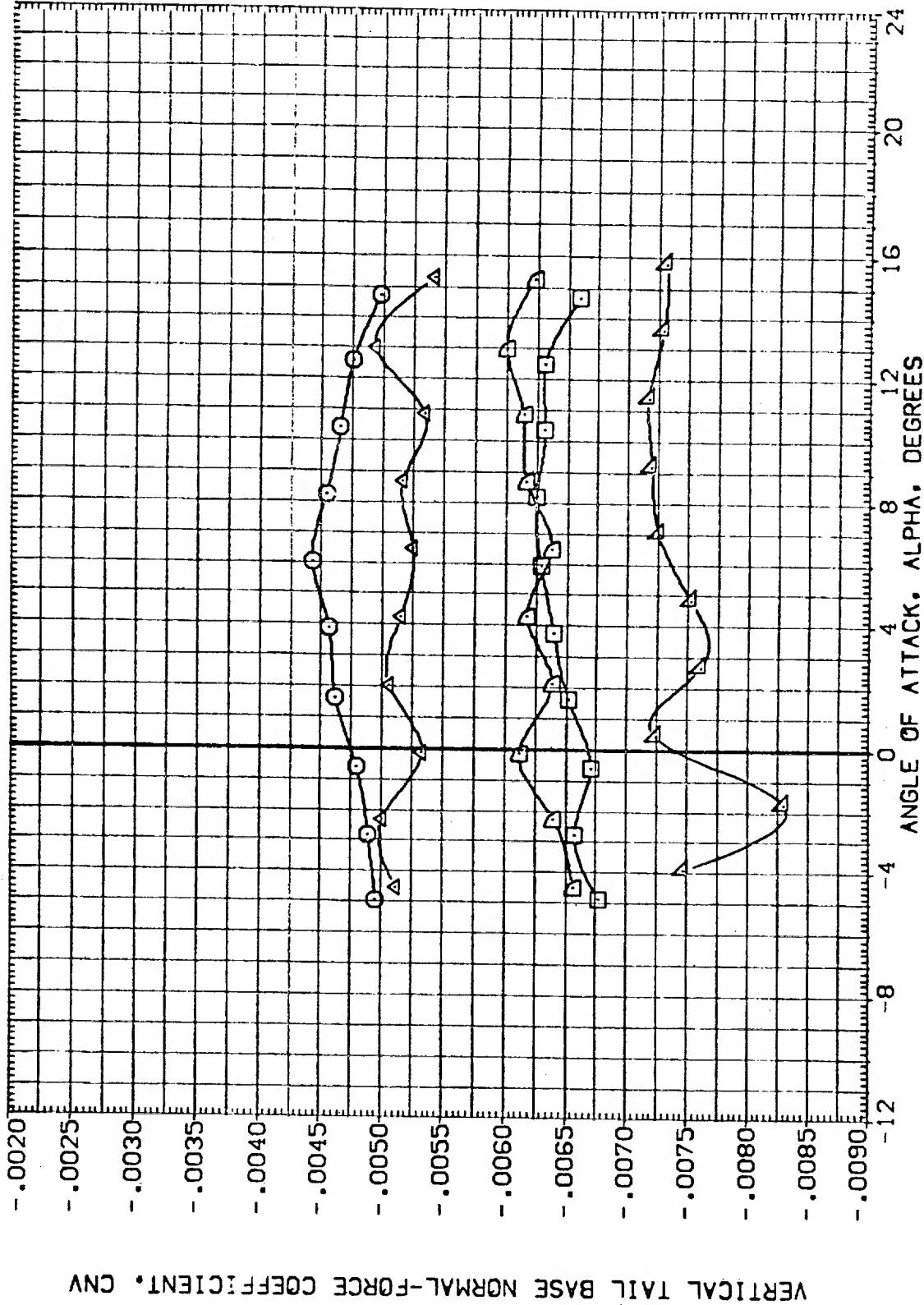


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(COMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

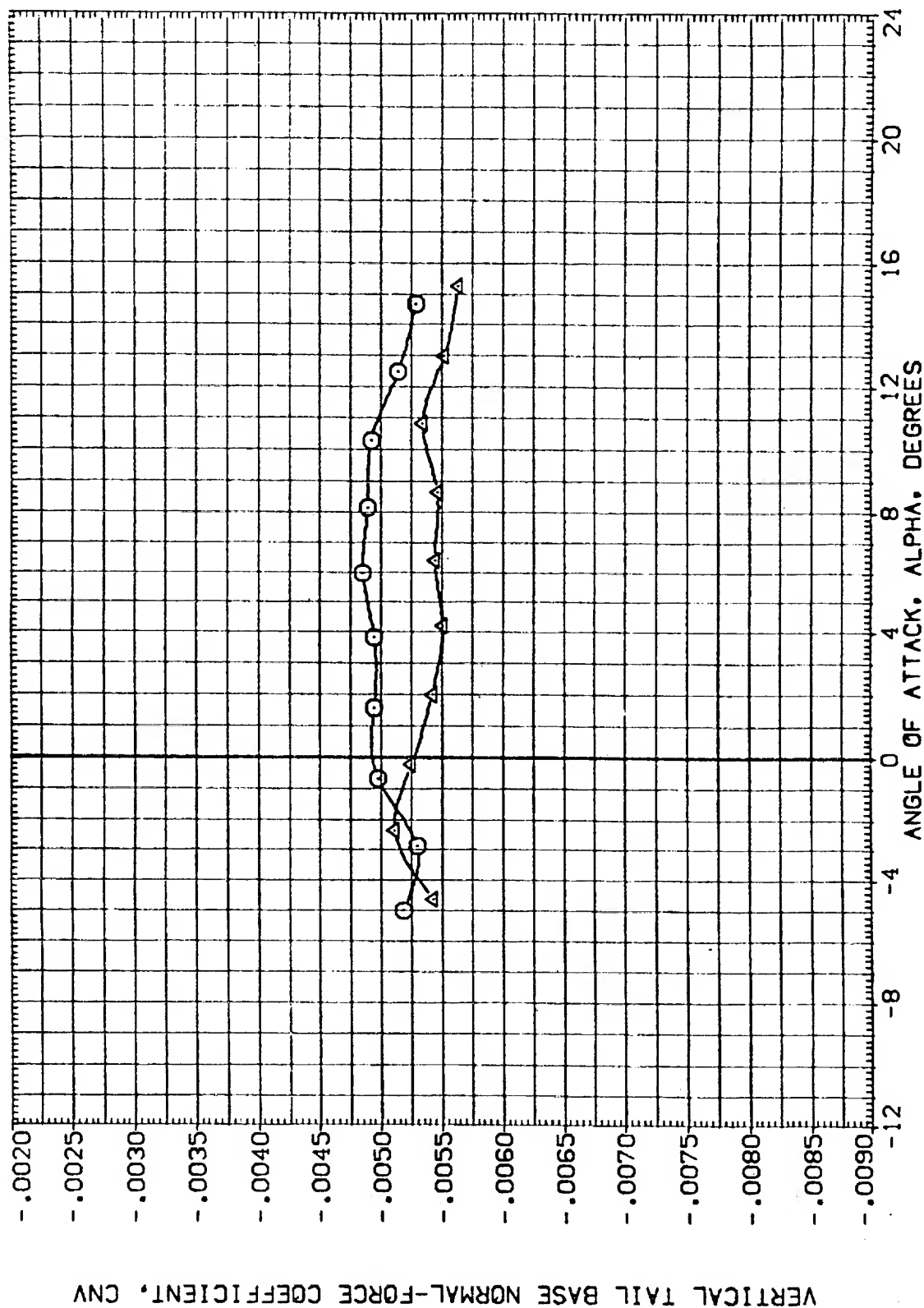


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT+DUM STNG

(BER005) ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT+DUM STNG

(BER006) ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT+DUM STNG

(BER012) ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT

(BER014) ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT

(BER015) ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 16.300

.000 .000 -11.700

.000 .000 16.300

.000 .000 16.300

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP -.0000 IN.

ZMRP -.3750 IN.

SCALE .0150

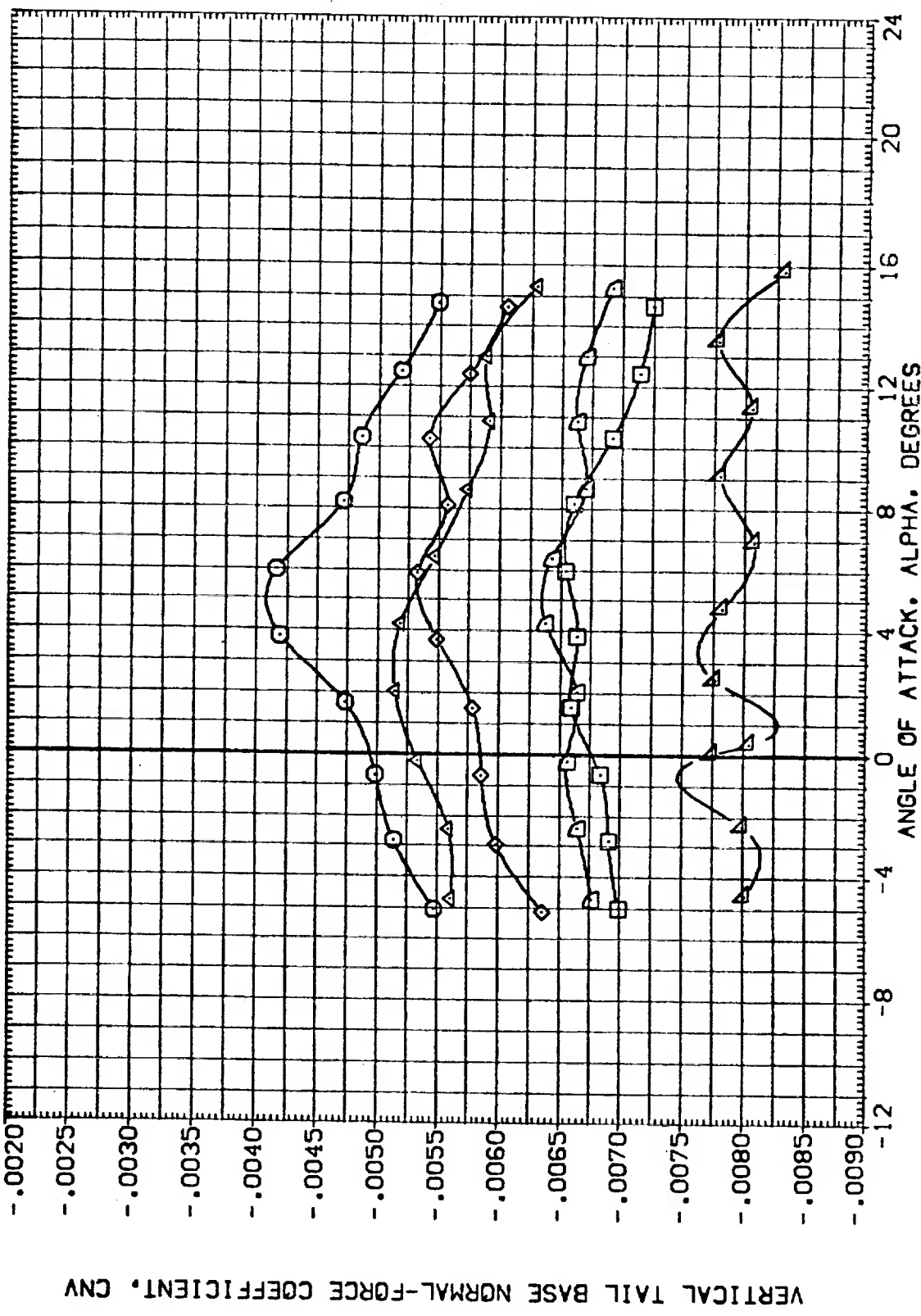


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

(BER001)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

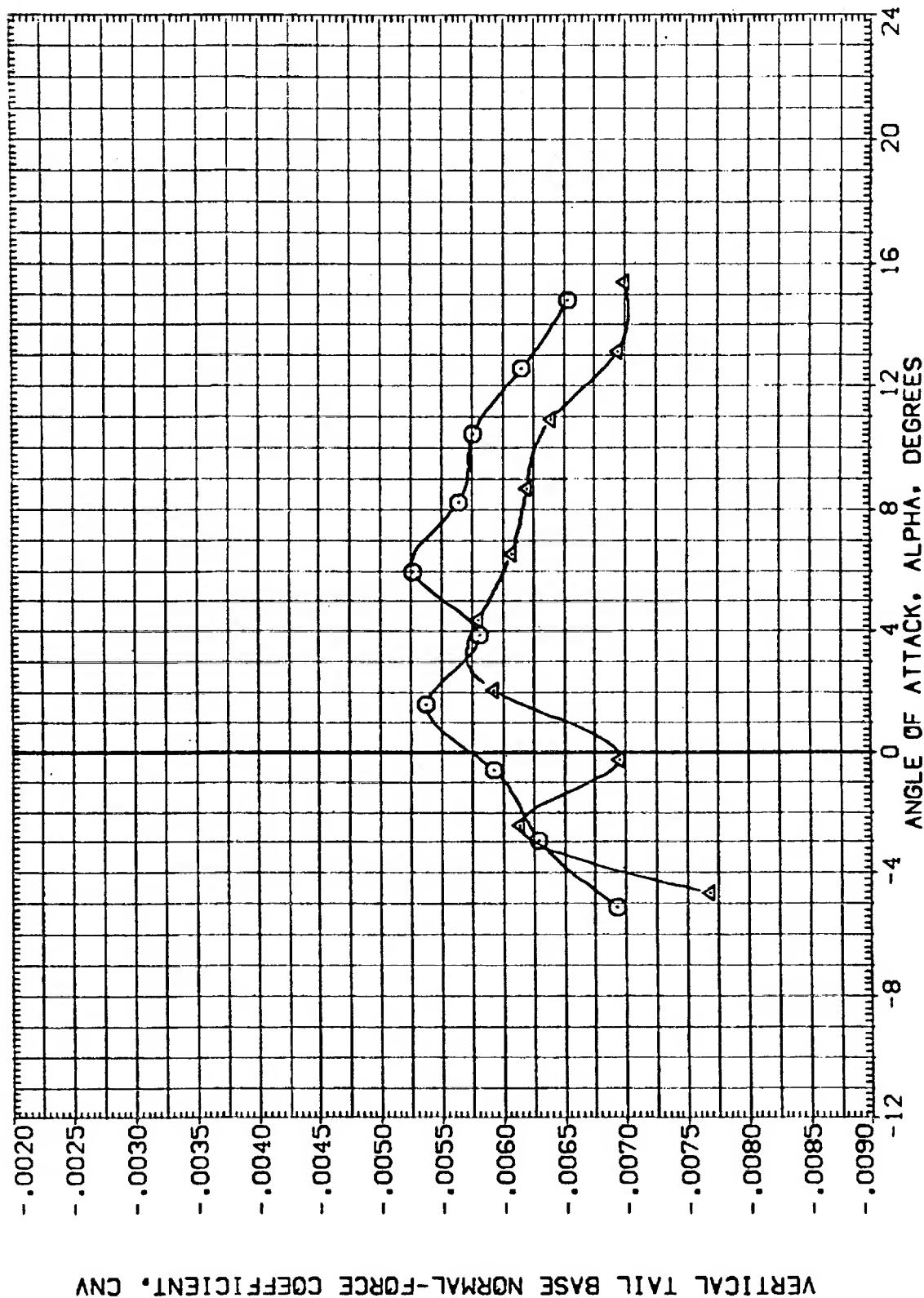


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	SCALE .0150

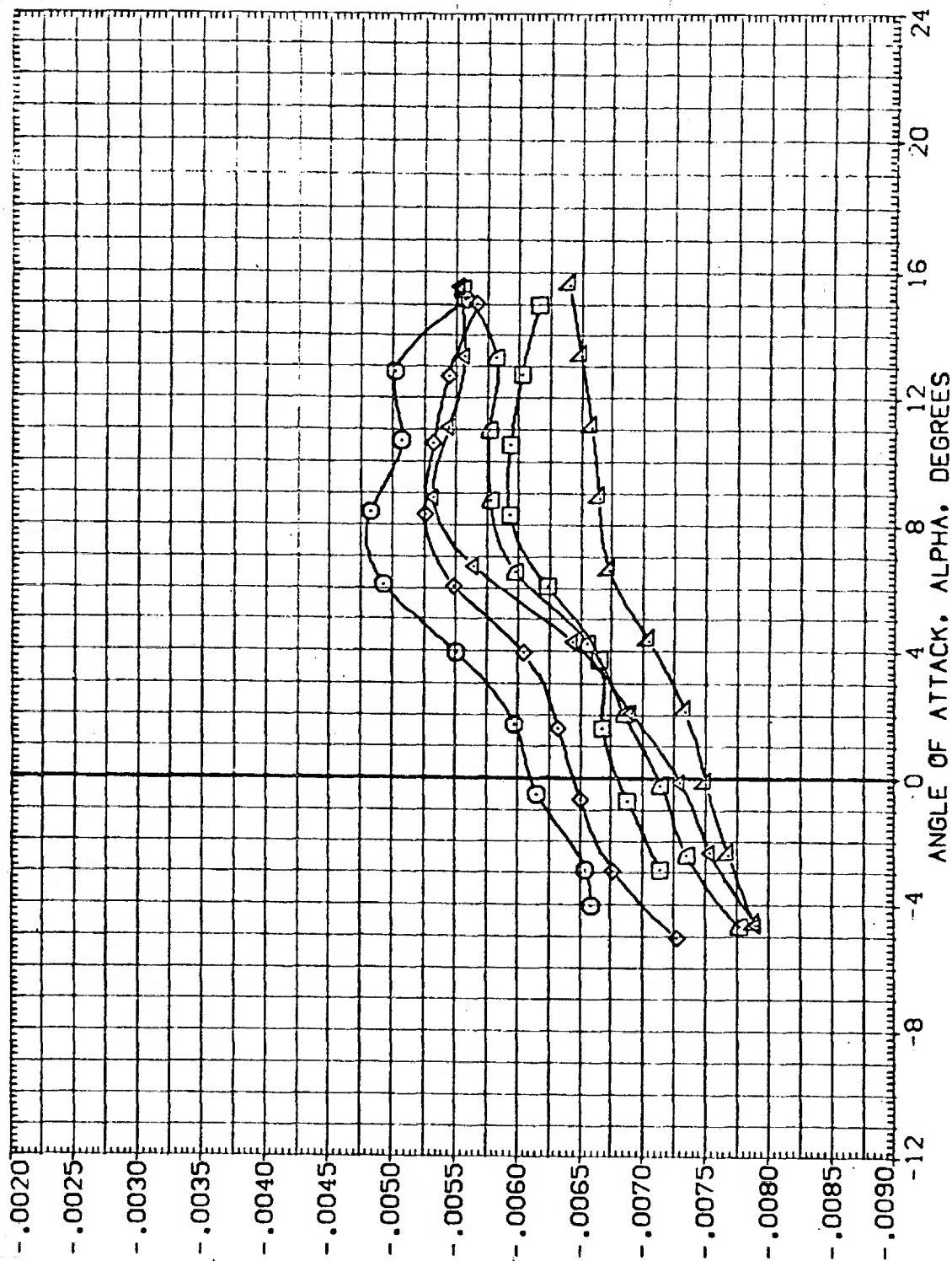


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(H)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

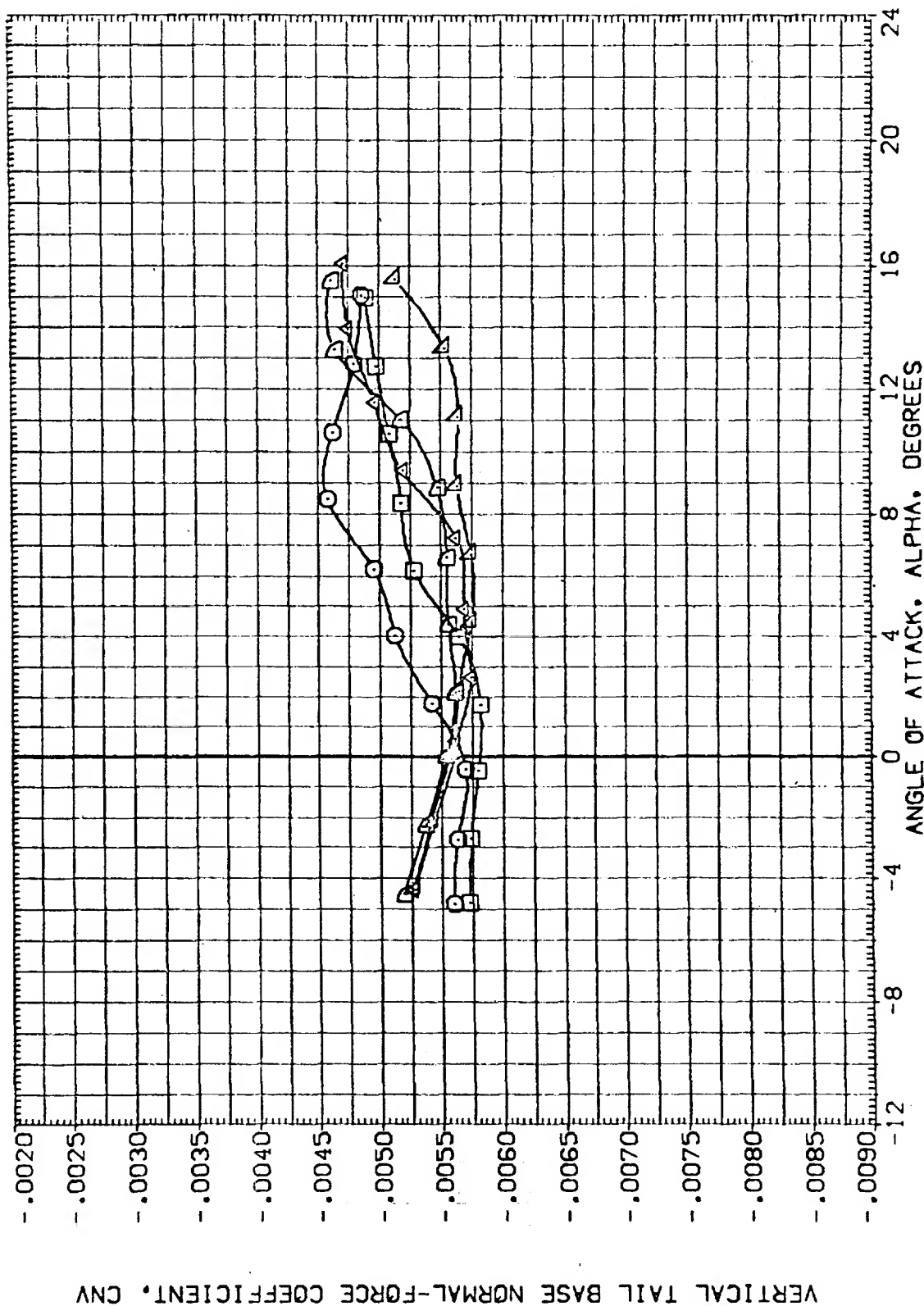


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

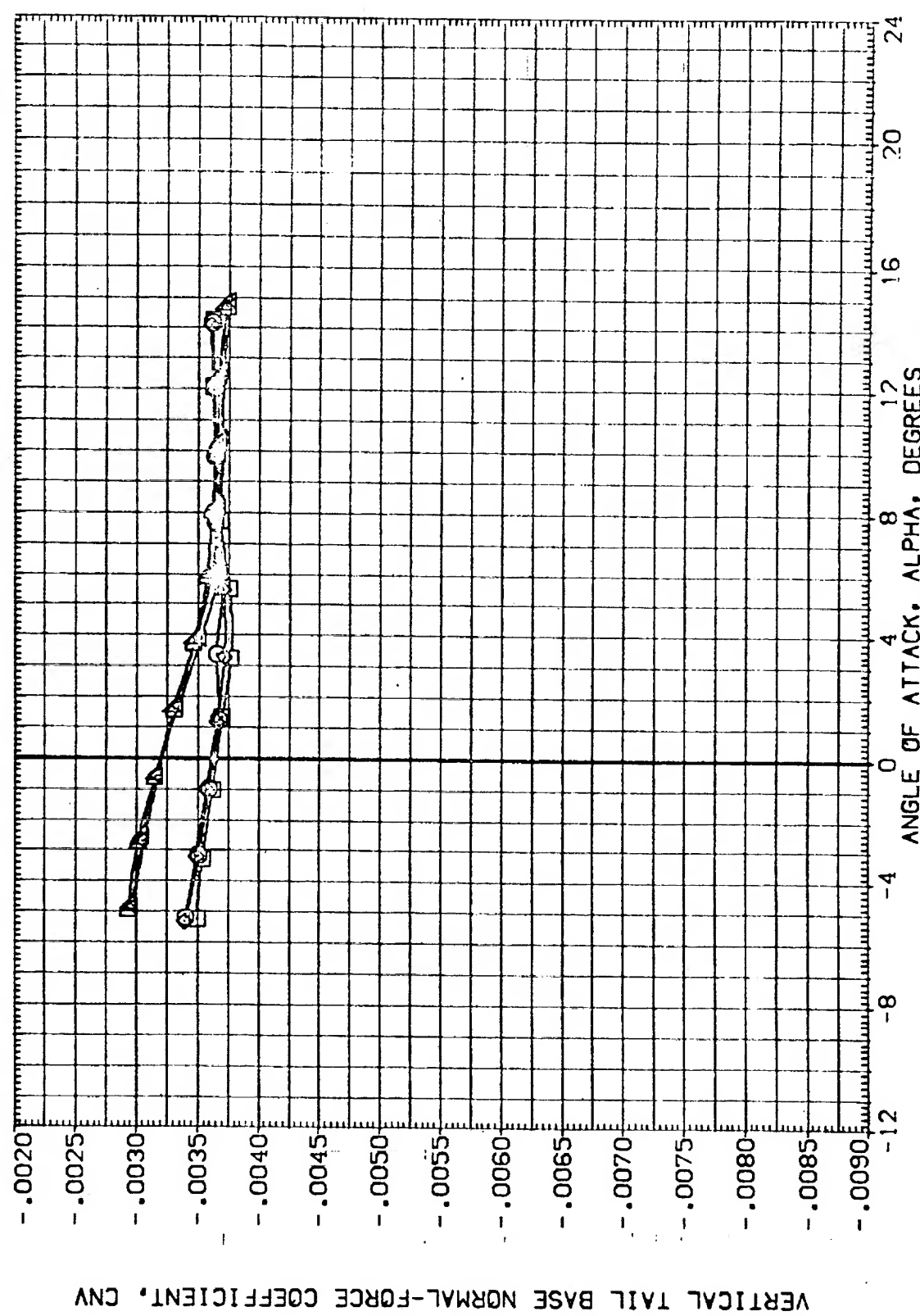


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT+DUM SING	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

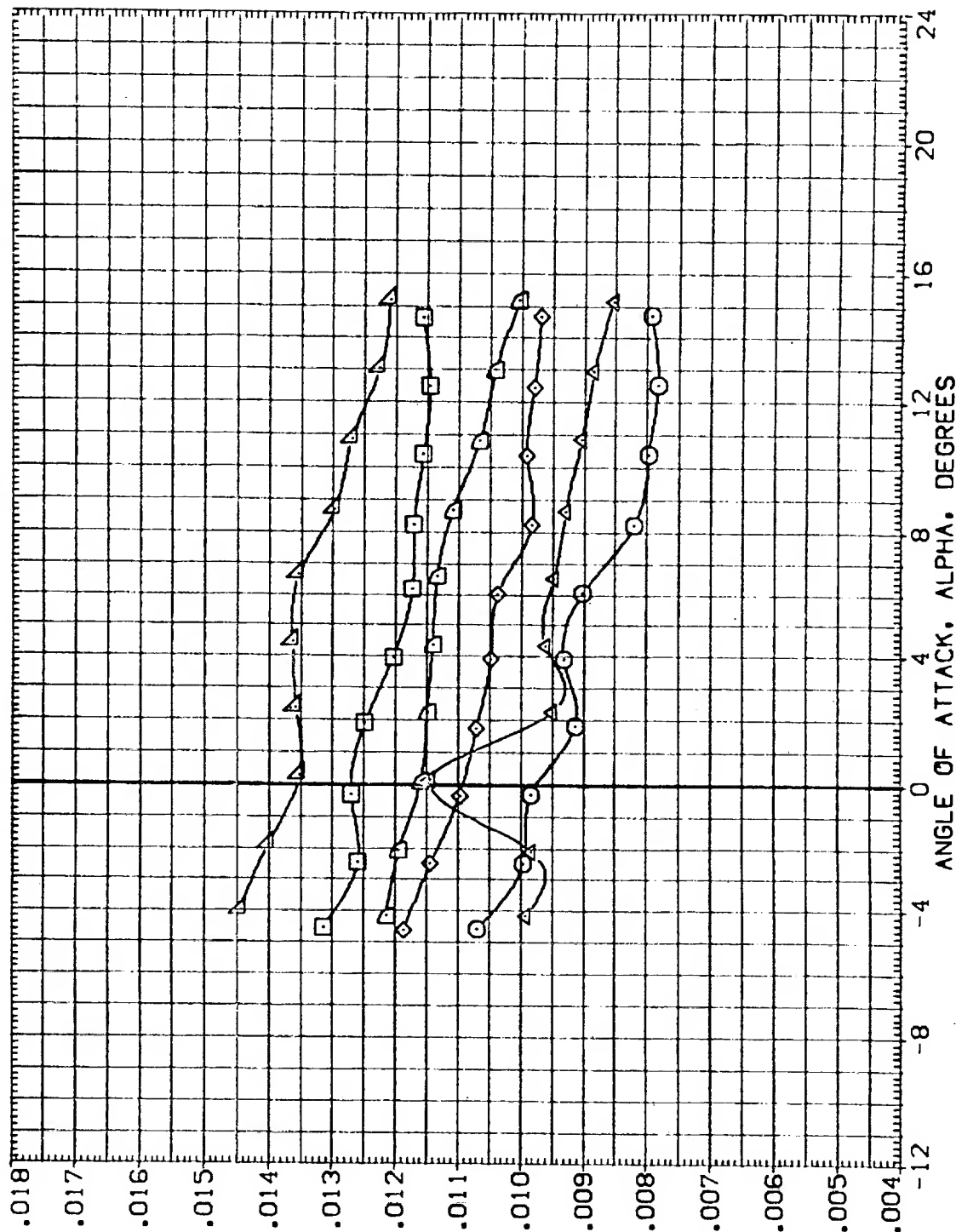


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{BER001} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING

{BER005} ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING

{BER006} DATA NOT AVAILABLE

{BER012} ARC 66-709 0A59 0A11A-(RS V8)+STRUT

{BER014} ARC 66-709 0A59 0A11A-(RS V8)+STRUT

{BER015} ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5535 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

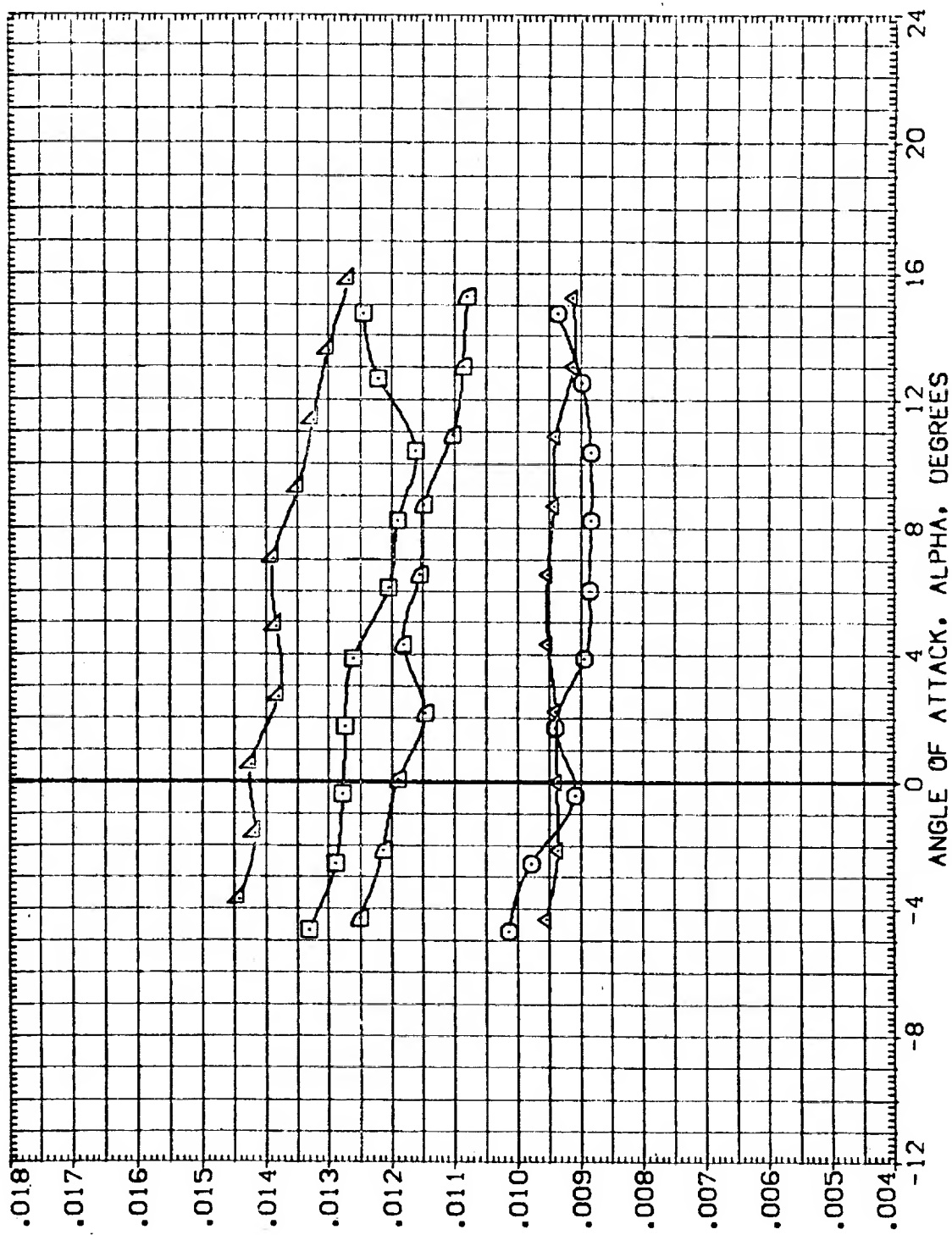


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS VB1)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 QAS9 0A11A-(RS VB1)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVFW

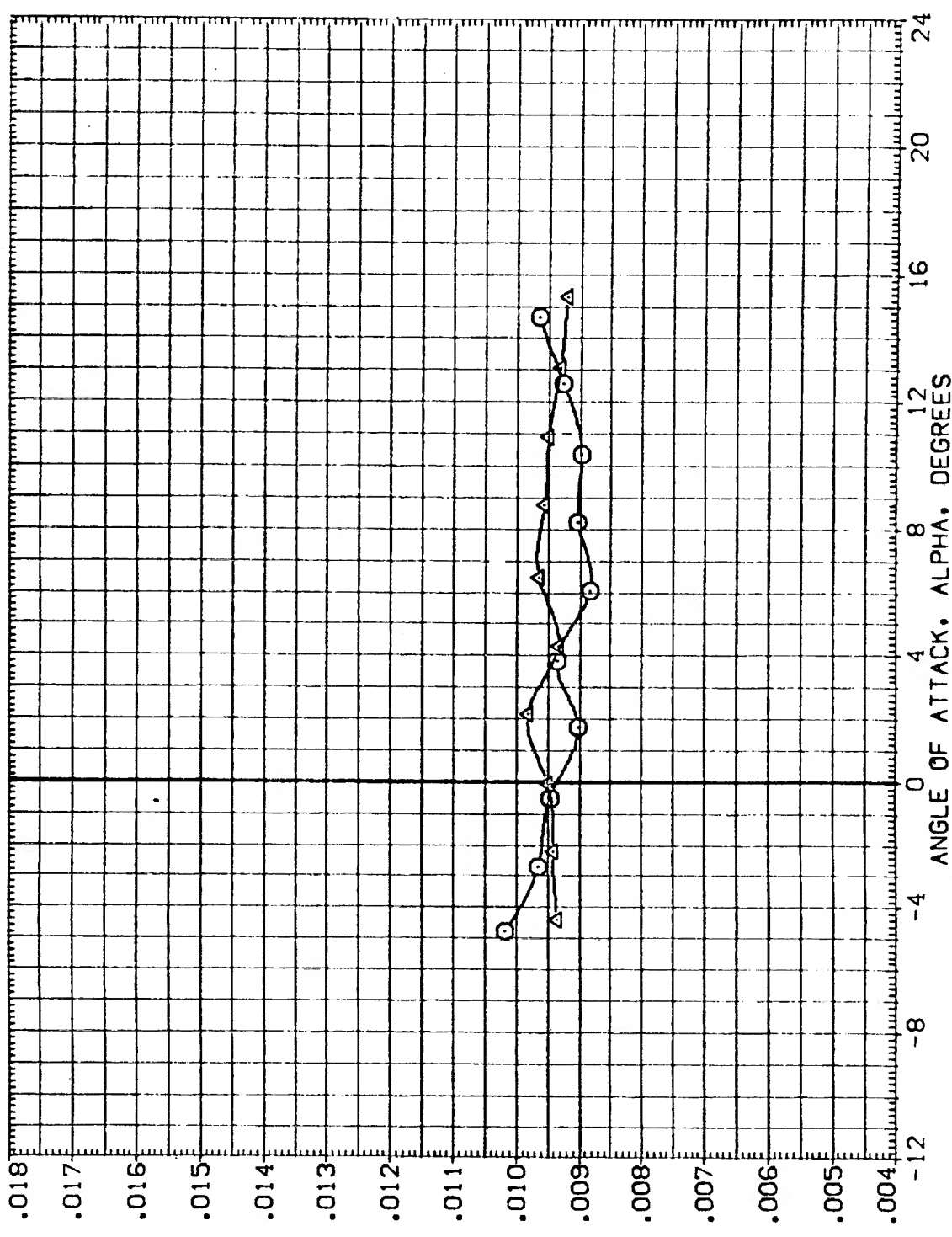


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CJ)MACH = .75

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{BER001}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DM STNG	.000	.000	-11.700	SREF .6053 50 FT.
{BER005}	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DM STNG	.000	.000	16.300	LREF .5935 FT.
{BER006}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
{BER012}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
{BER014}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	YMRP .0000 IN.
{BER015}	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

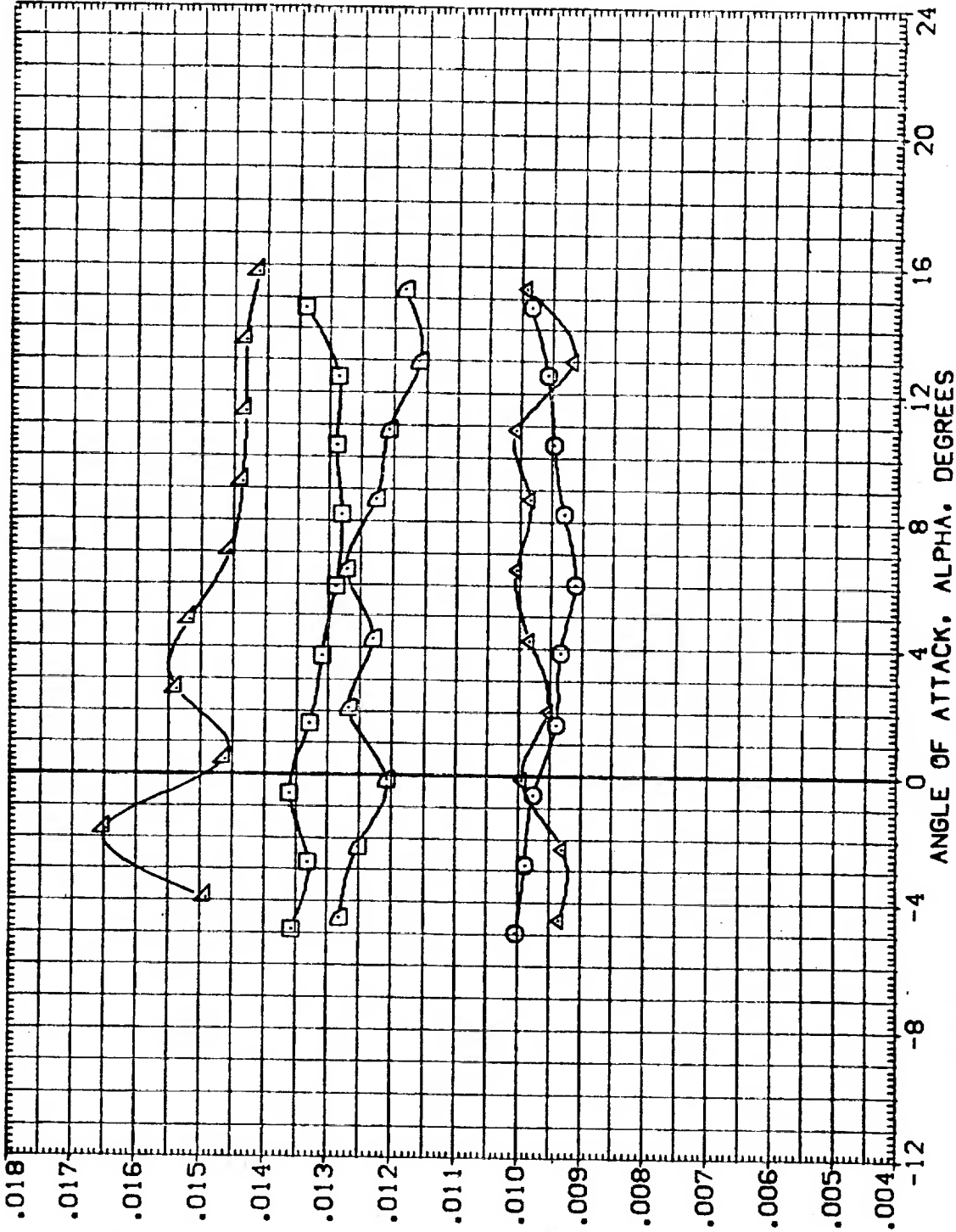


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

COMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

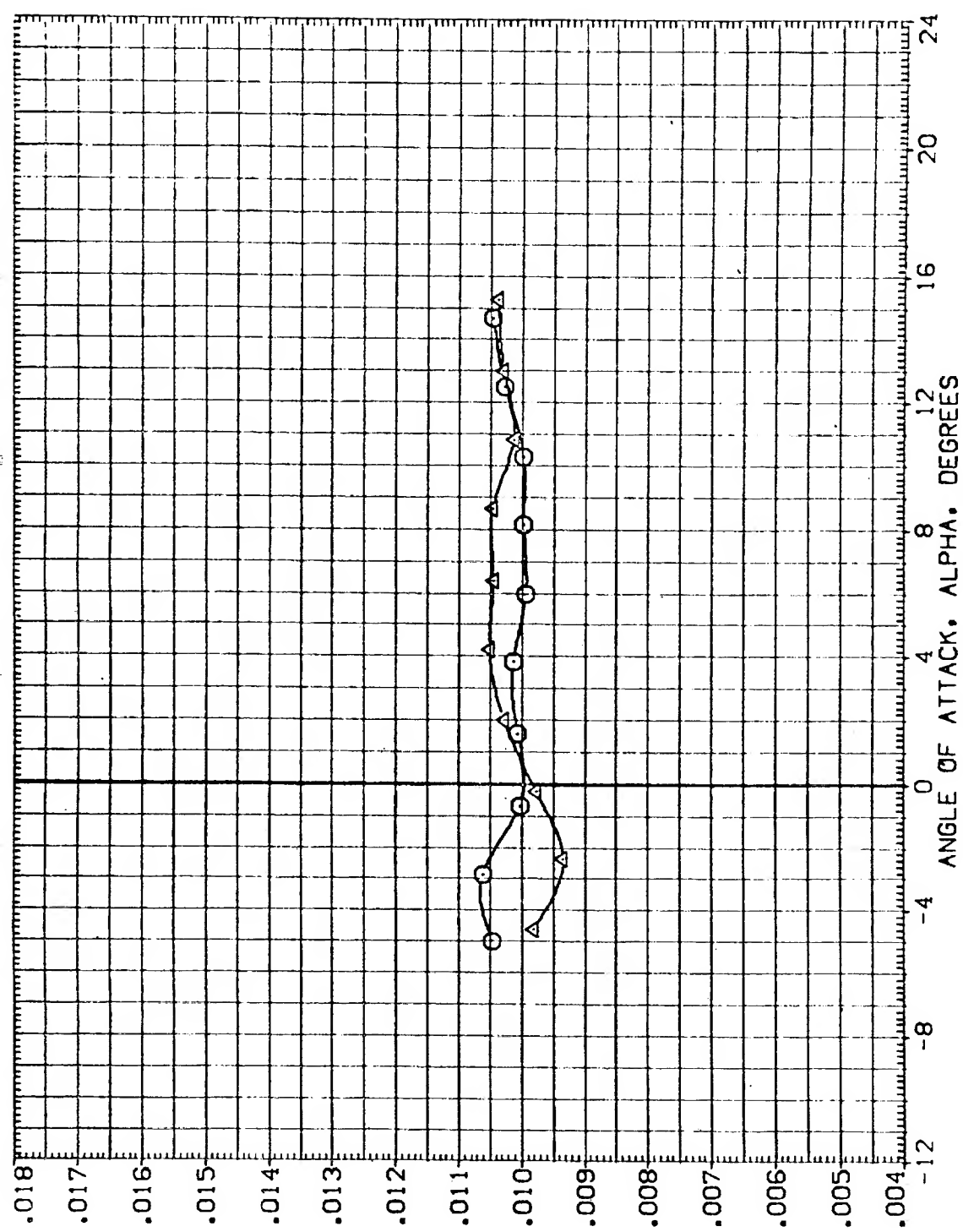


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

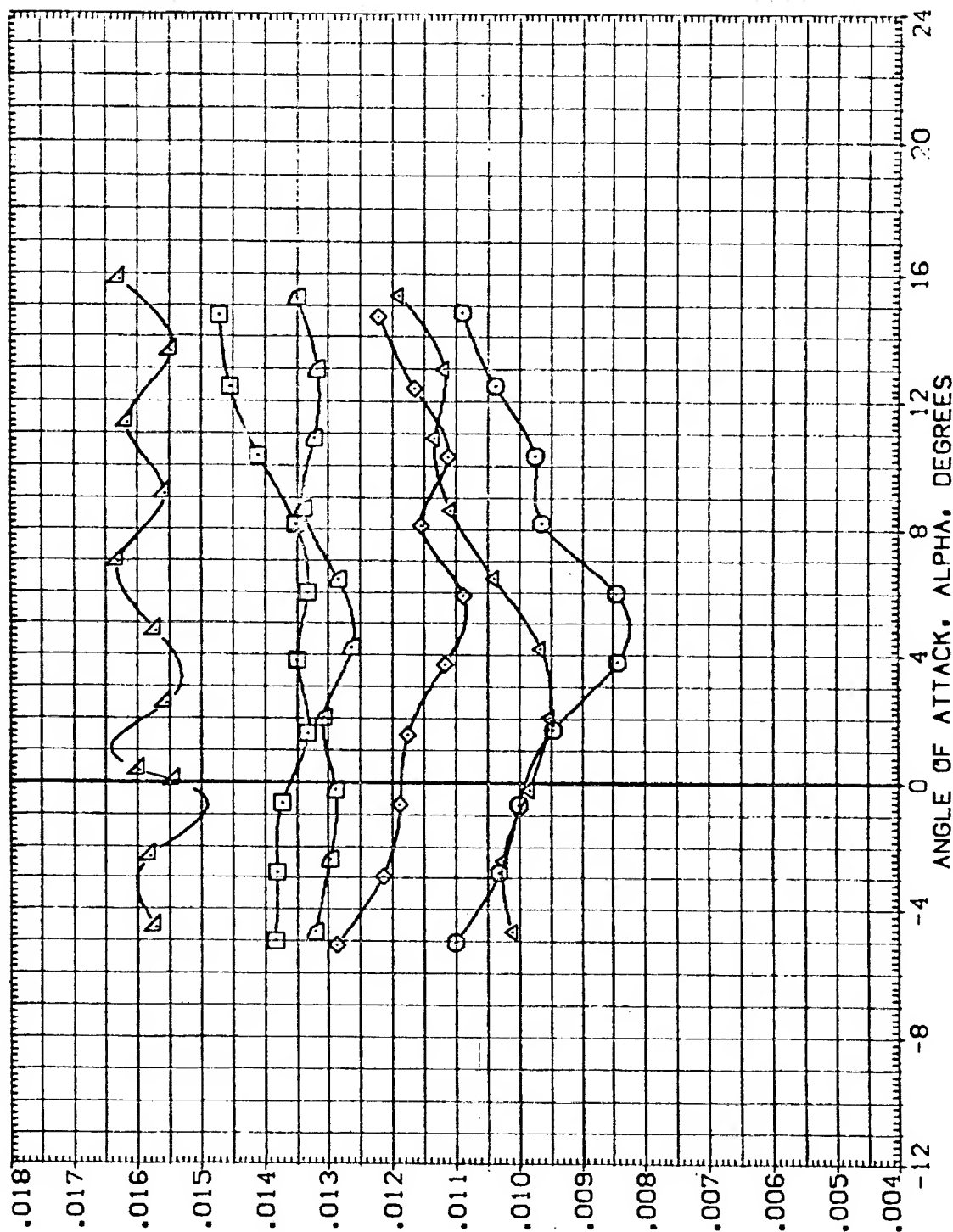


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(BER001)	ARC 65-709 OAS9 0A11A-(N24 R5 V81)+STRUT+OUM STAG	SREF	.6053	SQ.FT.
(BER005)	DATA NOT AVAILABLE	LREF	.5935	FT.
(BER006)	DATA NOT AVAILABLE	BREF	1.1710	FT.
(BER012)	ARC 65-709 OAS9 0A11A-(R5 V81)+STRUT	YMRP	12.6255	IN.
(BER014)	DATA NOT AVAILABLE	ZMRP	.0000	IN.
(BER015)	DATA NOT AVAILABLE	SCALE	-.3750	IN.

BOFLAP ELEVON BETA

-11.700	.000	.000
16.300	.000	.000
16.300	.000	.000
-11.700	.000	.000
16.300	.000	.000
.000	.000	.000

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFW

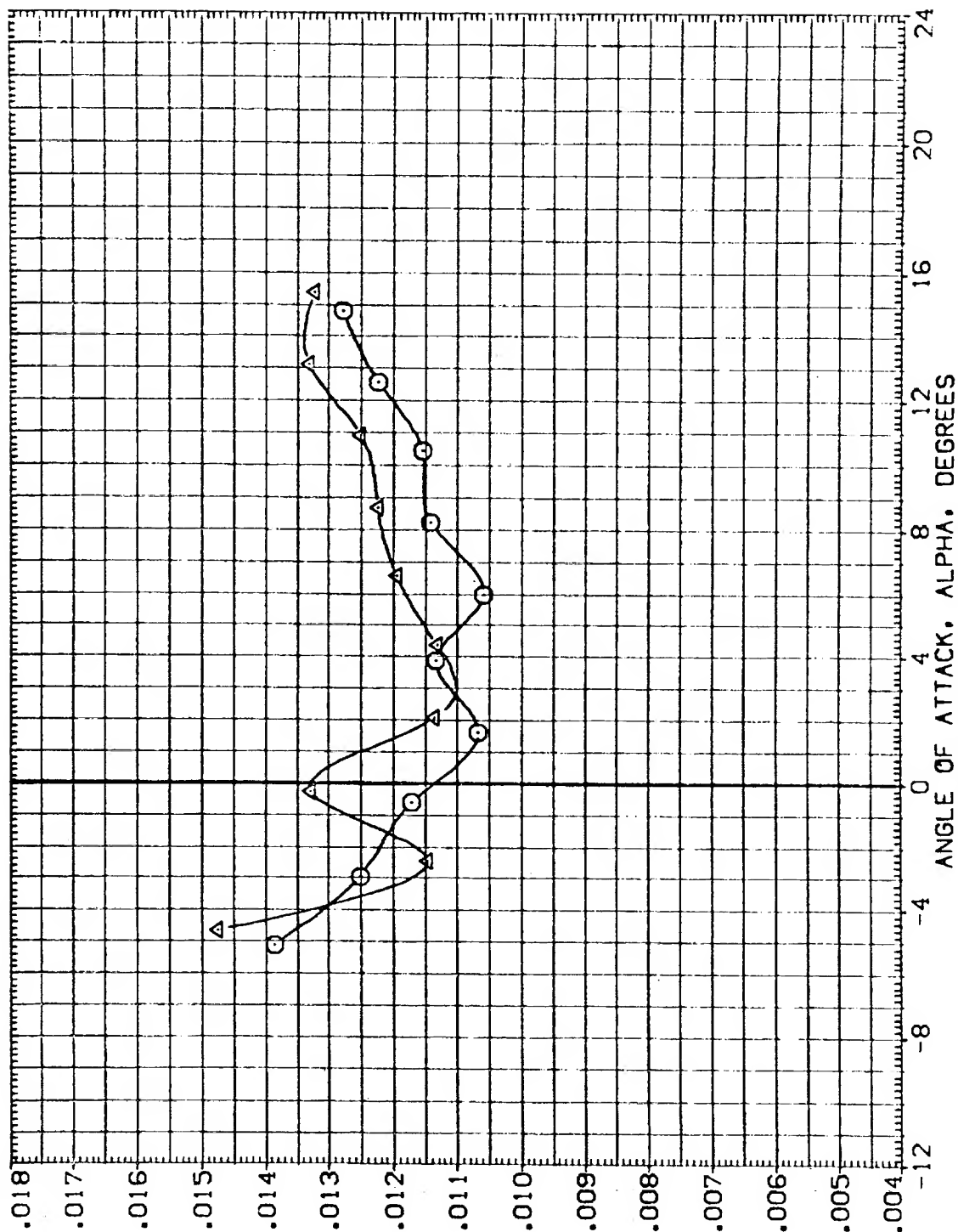


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STAG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 DA59 DA11A-IN24 RS V81+STRUT+DUM STAG	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	-11.700	YMRP 12.6755 IN.
(BER014)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 DA59 DA11A-(RS V81+STRUT	.000	.000	.000	SCALE -.3750 IN.

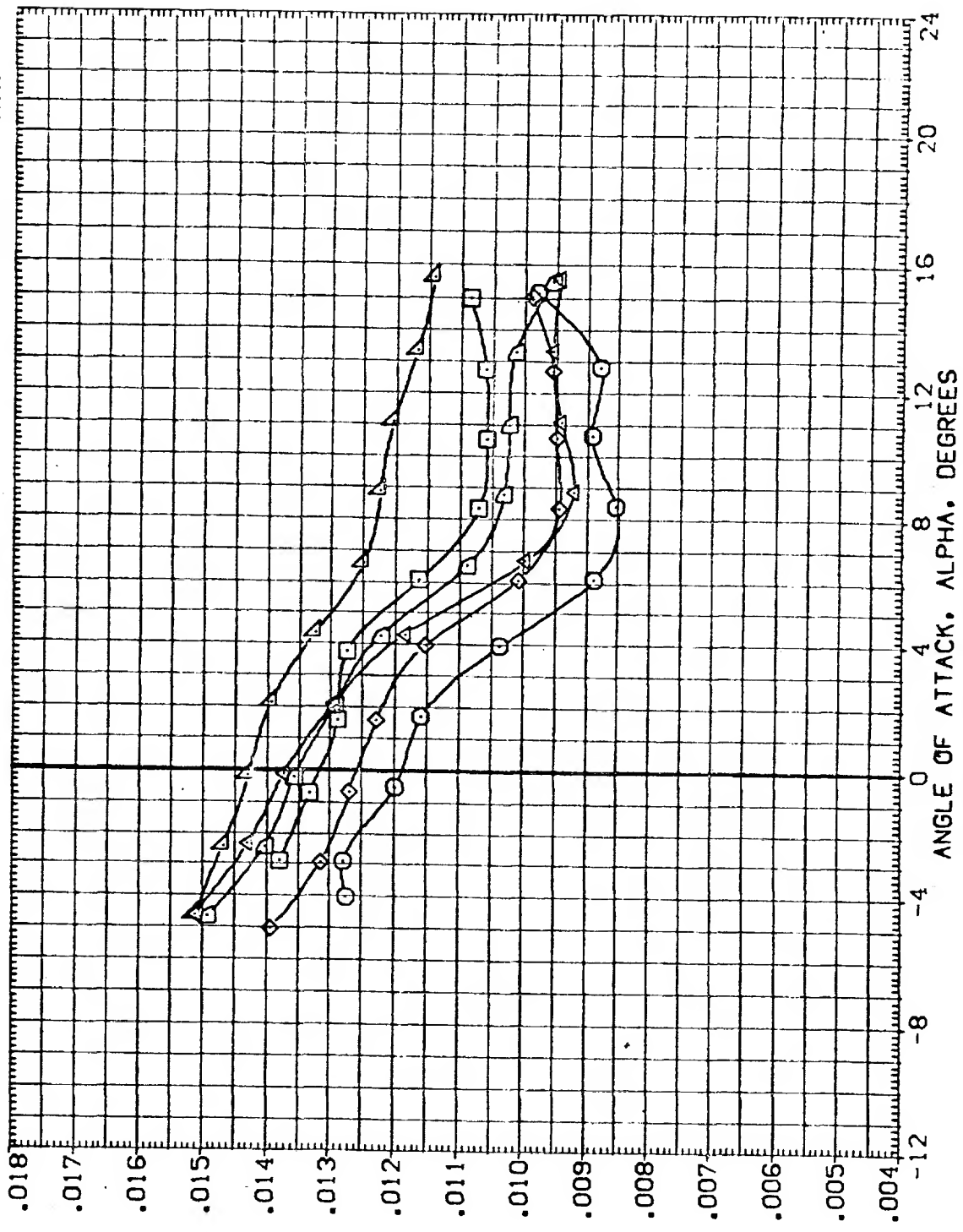


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(CH)MACH = 1.21

REFERENCE INFORMATION

SREF	.6053	SQ.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

BETA

ELEVON	.000
BOFLAP	-11.700
	.000
	16.300
	.000
	-11.700
	.000
	16.300
	.000

CONFIGURATION DESCRIPTION

ARC 66-709	0AS9	DA11A-(N24	RS	VB1)+STRUT+DUM	SING
ARC 66-709	0AS9	DA11A-(N24	RS	VB1)+STRUT+DUM	SING
DATA NOT AVAILABLE					
ARC 66-709	0AS9	DA11A-(RS	VB1)+STRUT		
ARC 66-709	0AS9	DA11A-(RS	VB1)+STRUT		
ARC 66-709	0AS9	DA11A-(RS	VB1)+STRUT		

DATA SET SYMBOL

(BER001)	○
(BER005)	×
(BER006)	◇
(BER012)	△
(BER014)	□
(BER015)	◇

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWFD

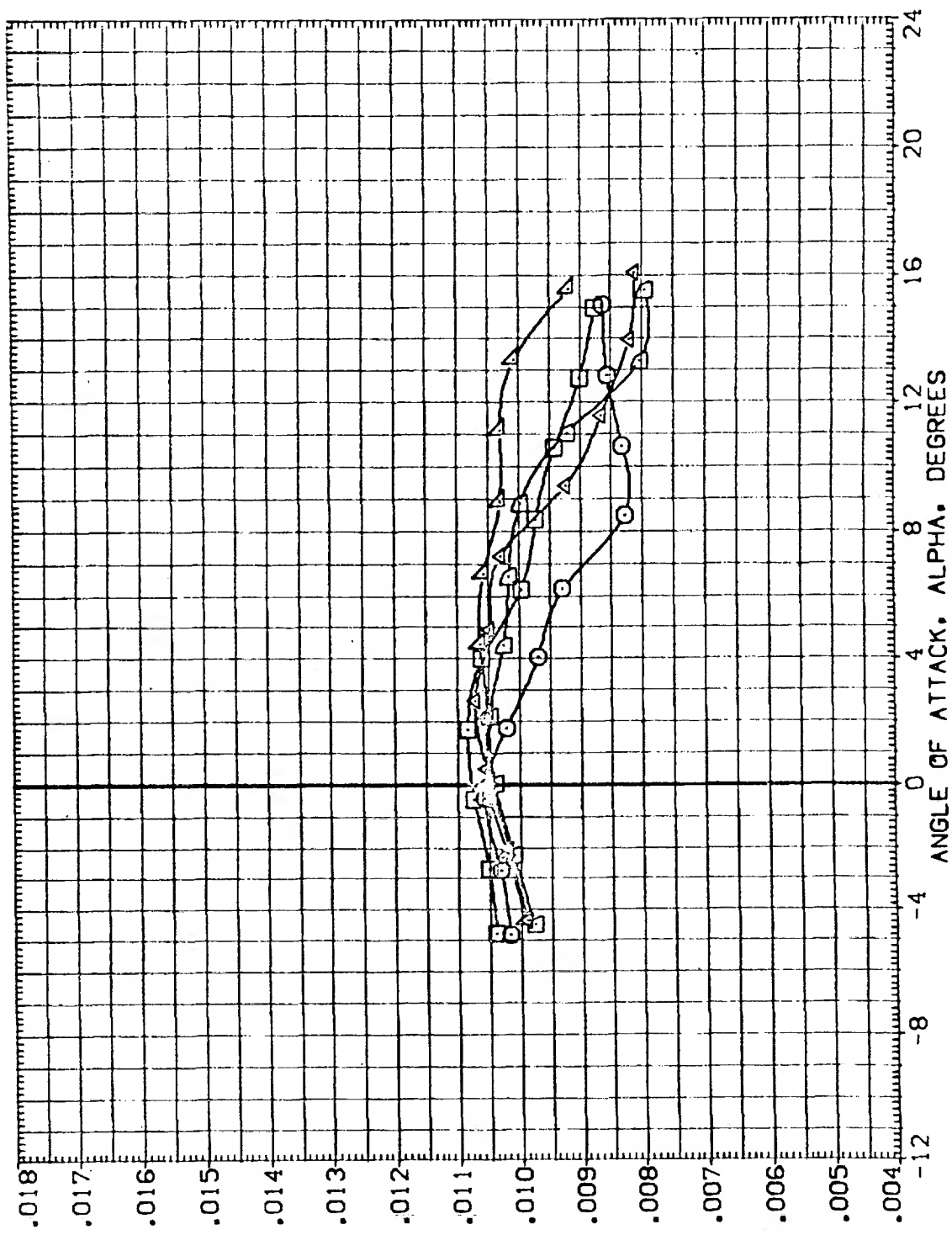


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DJM STNG	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

FORWARD VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMFWD

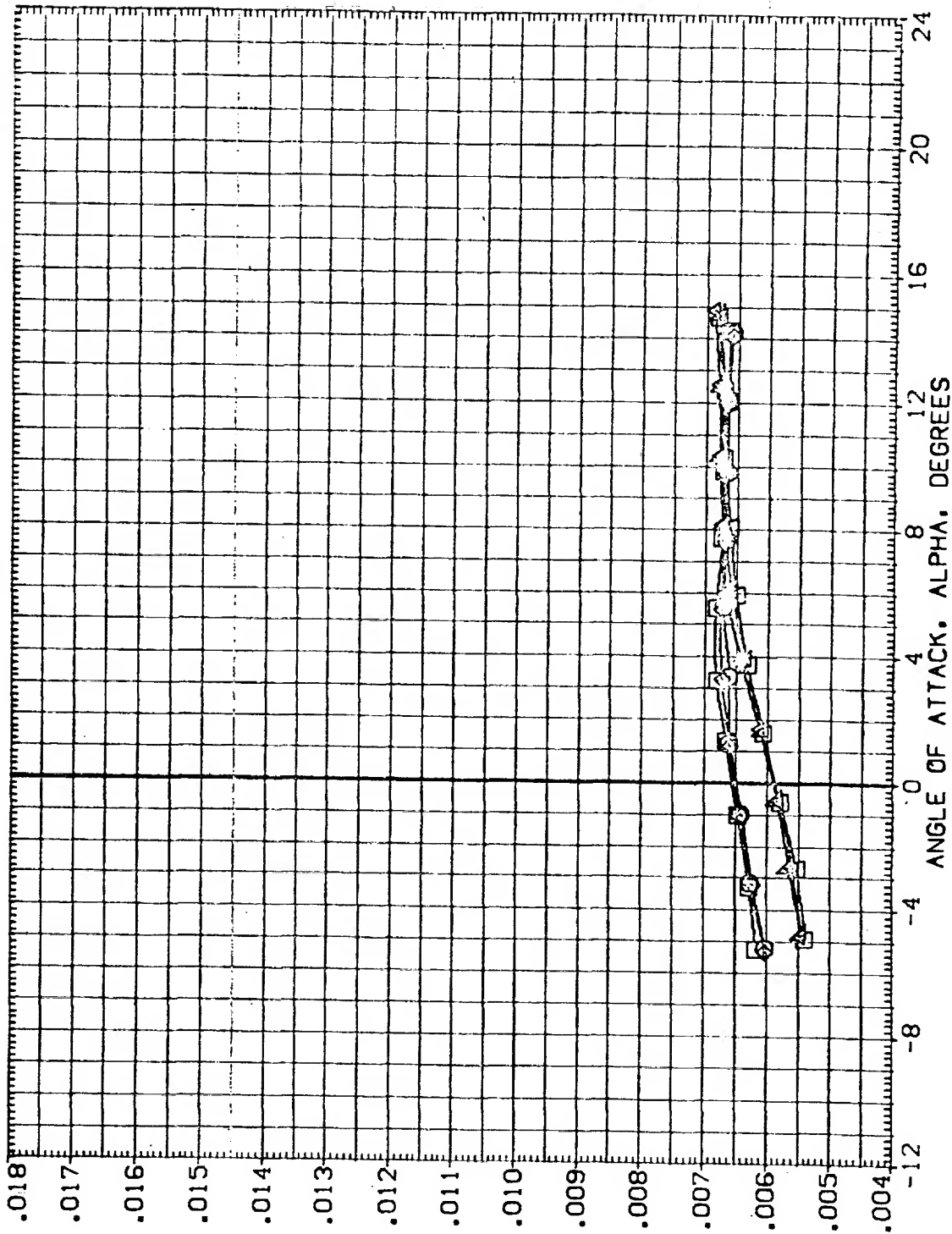








FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 YMRP 12.6255 IN.
 ZMRP .0000 IN.
 SCALE -.3750 IN.

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

CONFIGURATION DESCRIPTION
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG
 ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 ARC 66-709 0A59 0A11A-(RS V8)+STRUT

DATA SET SYMBOL
 (BER001) 
 (BER005) 
 (BER006) 
 (BER012) 
 (BER014) 
 (BER015) 

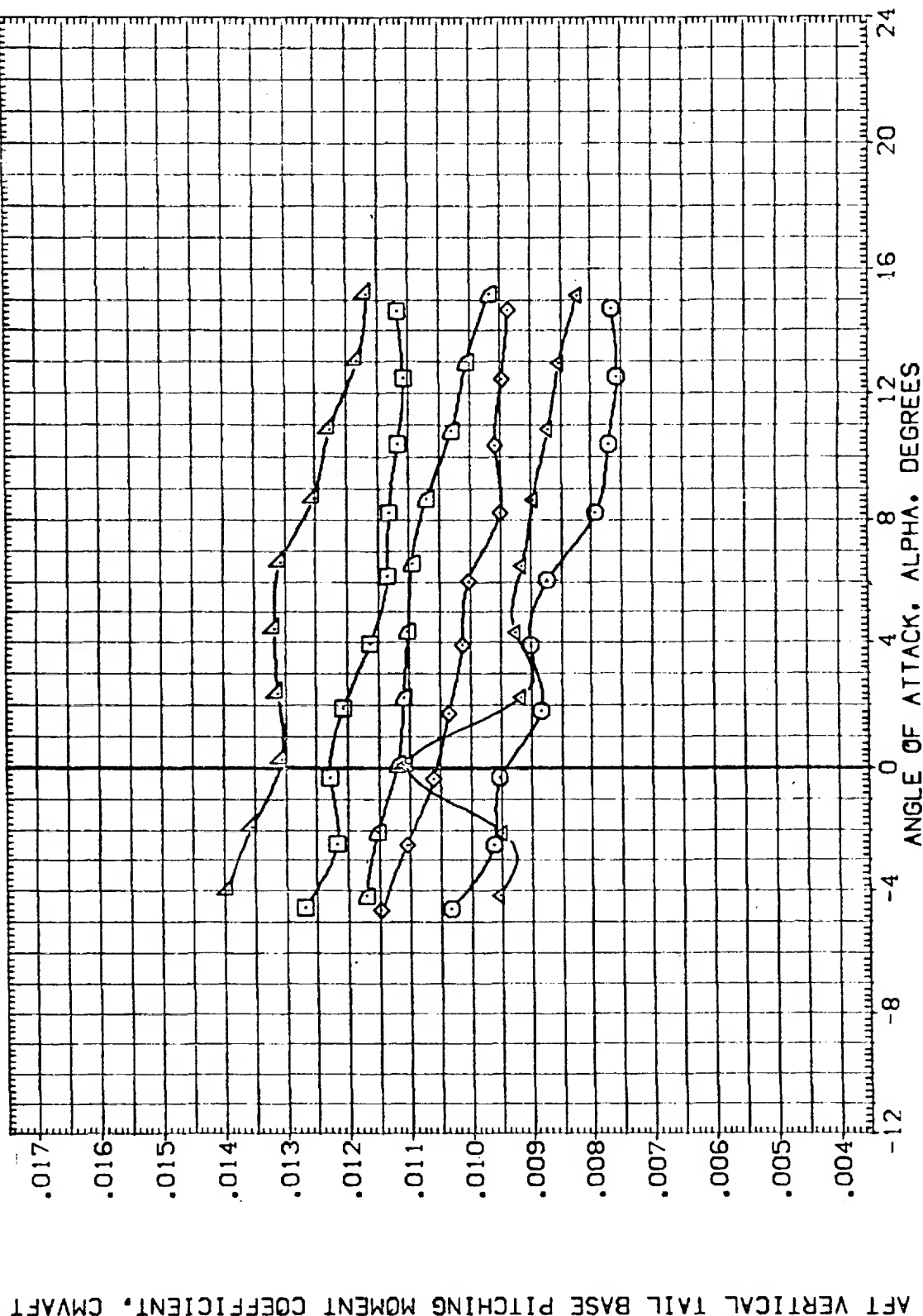


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	16.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE -.3750 IN.

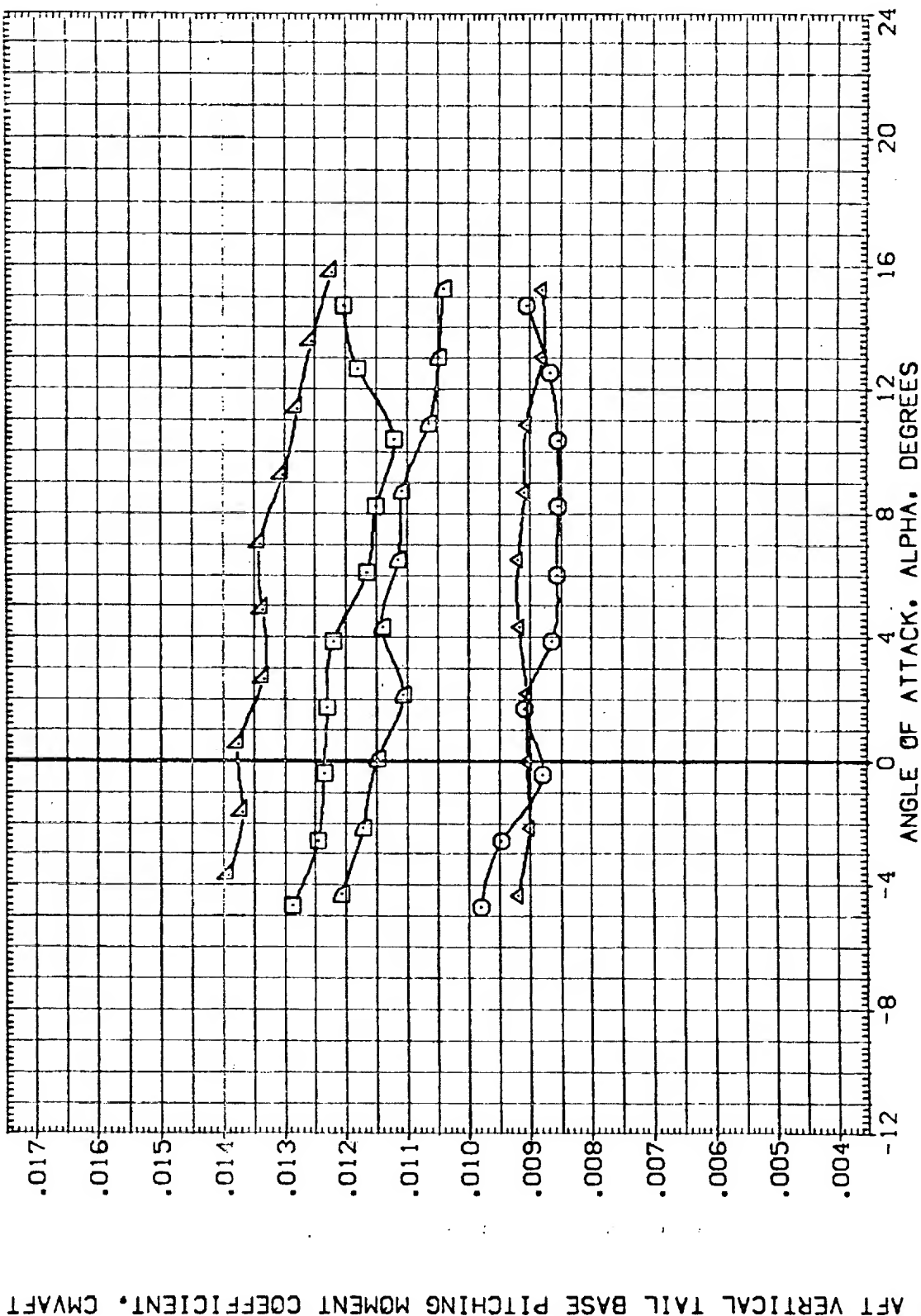


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	XMPP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMPP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMPP -.3750 IN.
					SCALE .0150

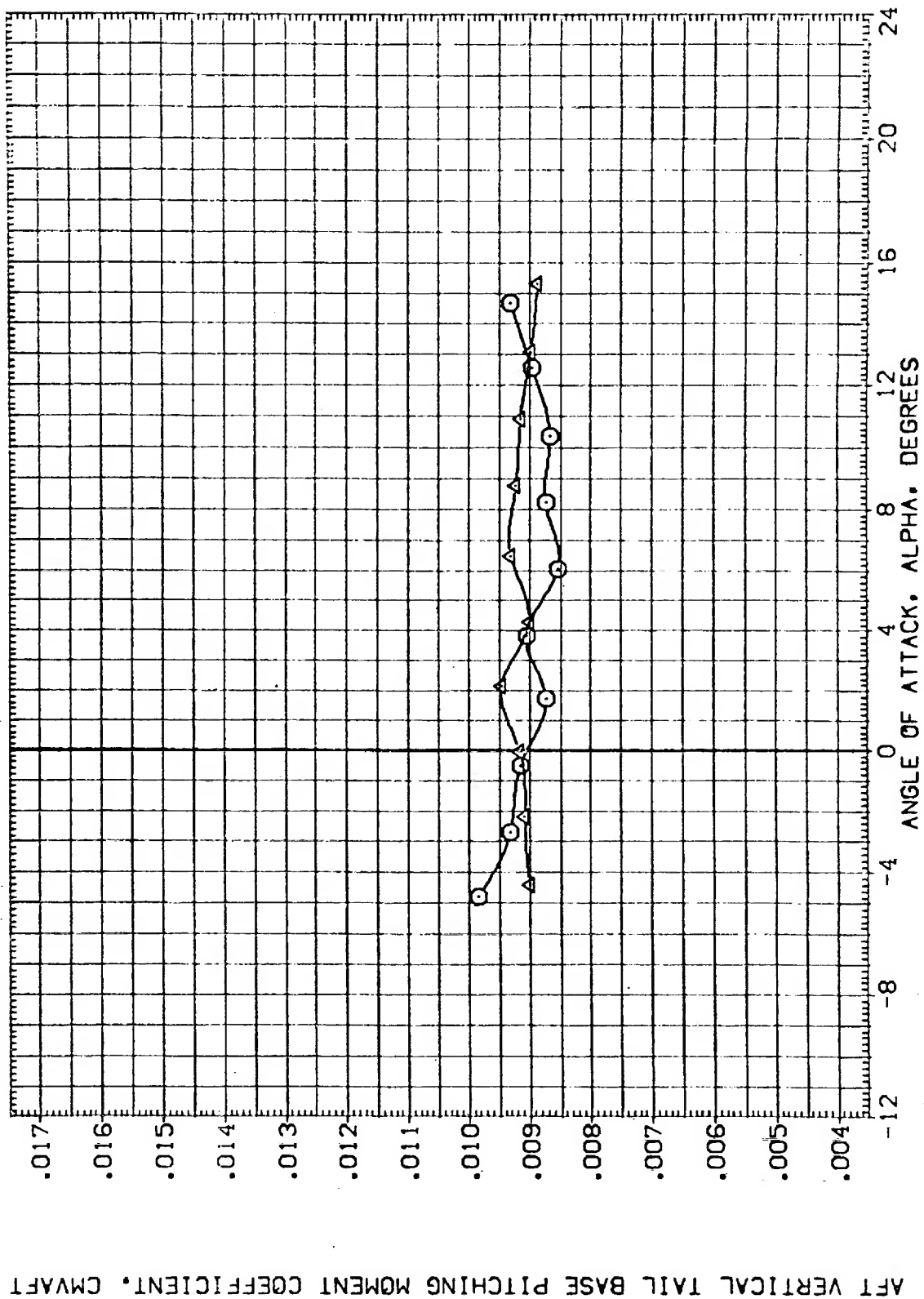


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	YMRP 12.6255 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	ZMRP -.3750 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	SCALE .0150

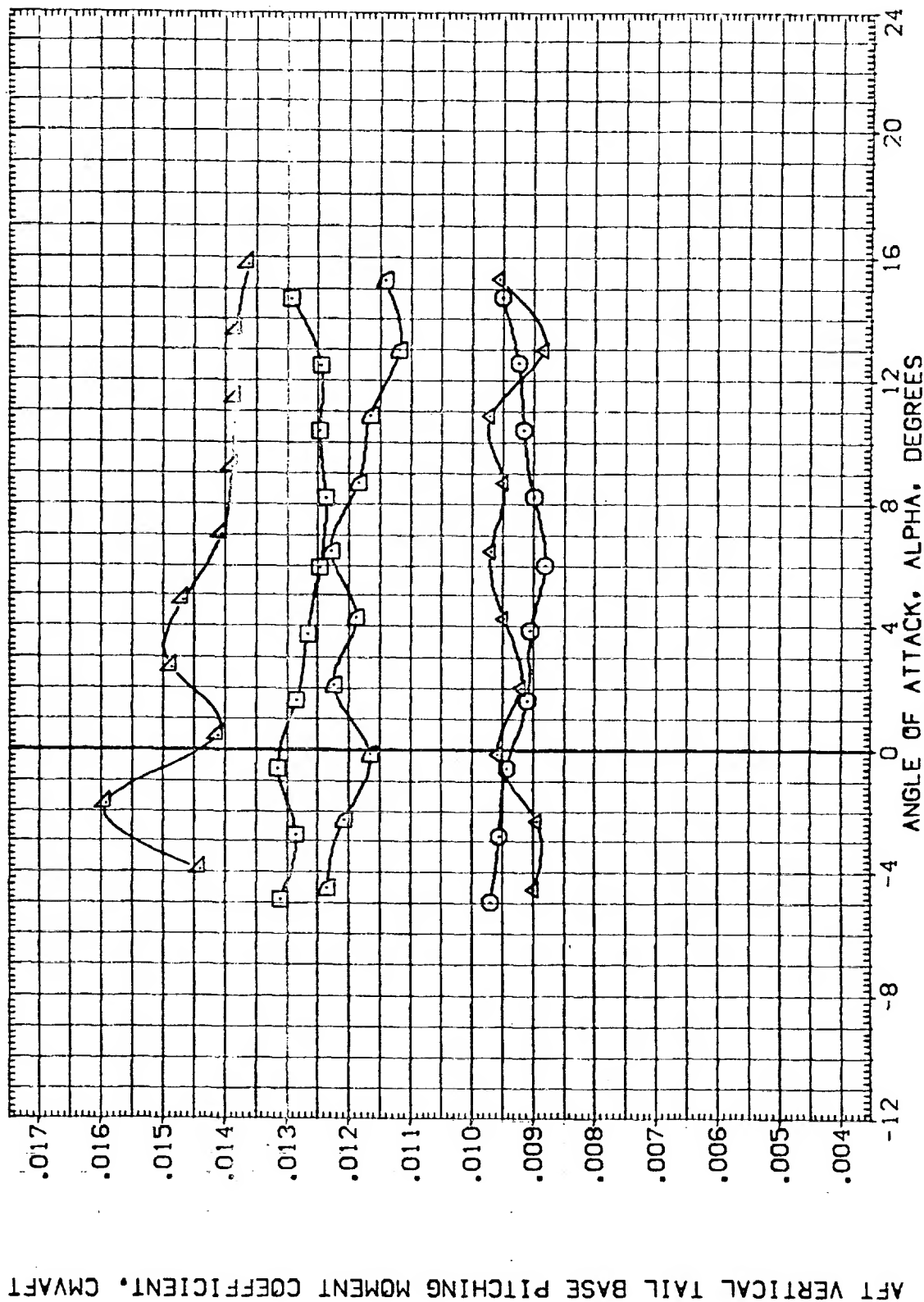


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(DMACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 OAS9 DA11A-(N24 R5 V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 OAS9 DA11A-(R5 V81)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

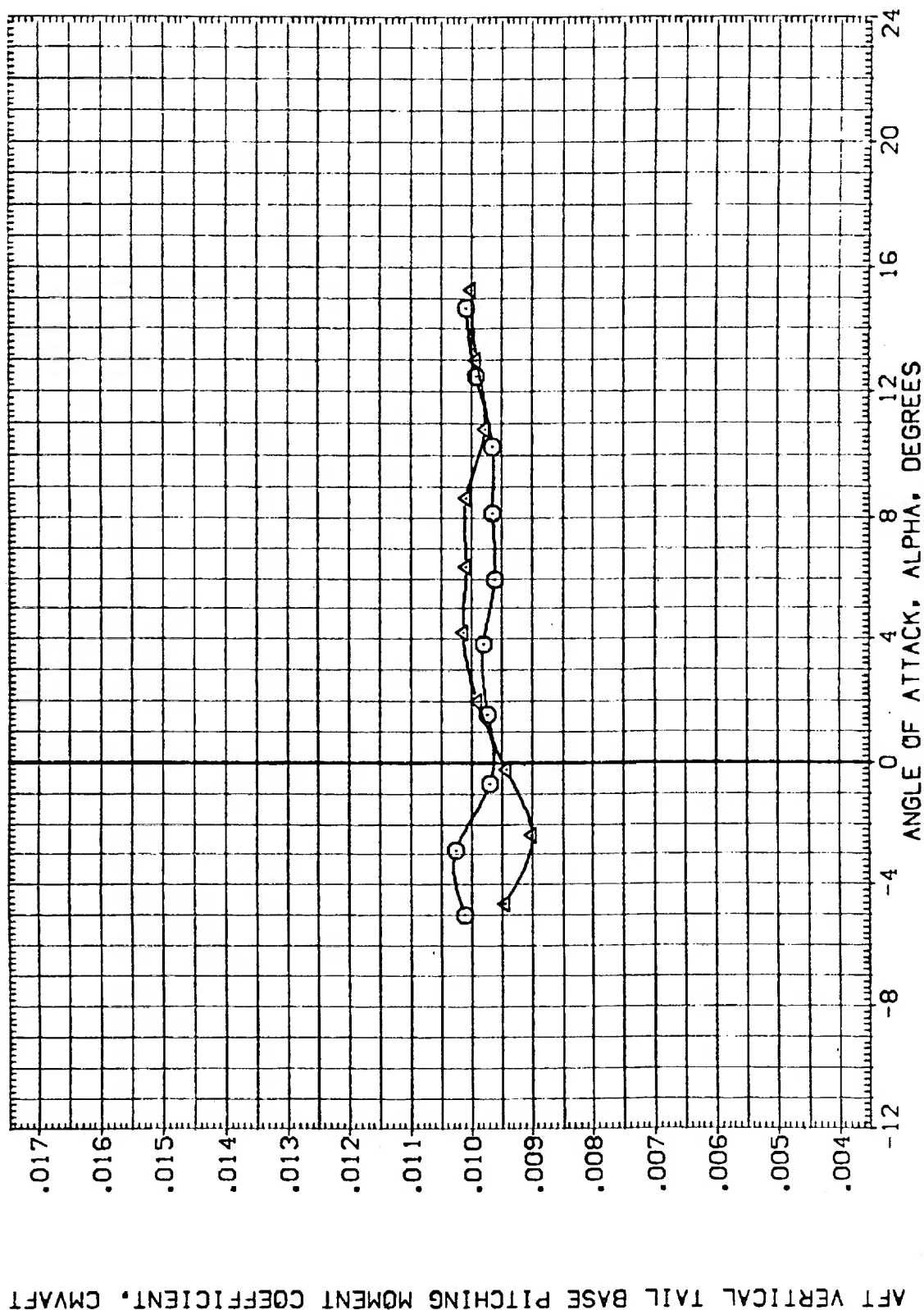


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(E)MACH = .85

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

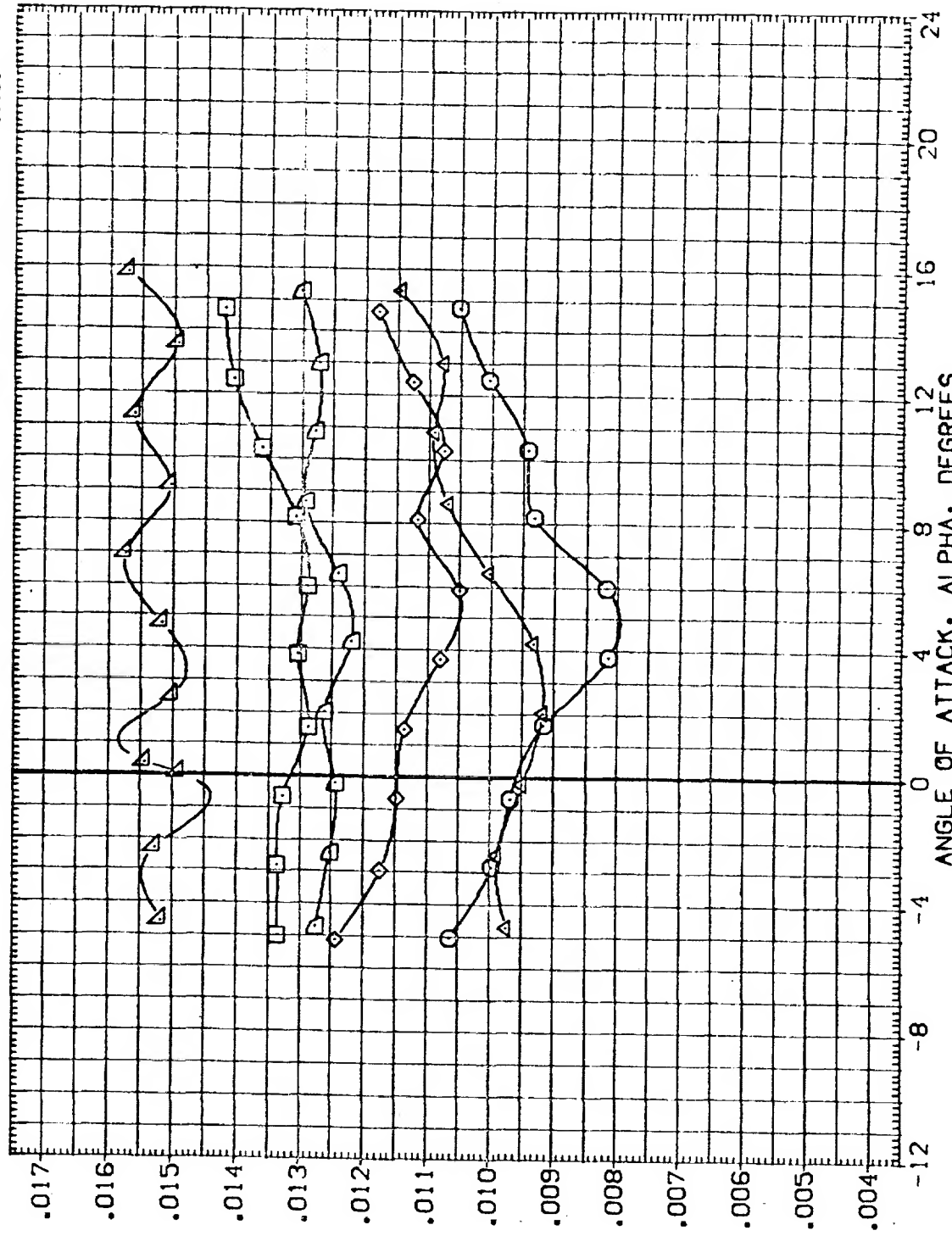


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(F)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)		ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)		ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM SING	.000	.000	16.300	LREF .5935 FT.
(BER012)		ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT+DUM SING	.000	.000	-11.700	BREF 1.1710 IN.
(BER014)		ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	XMRP 12.6255 IN.
(BER015)		ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	YMRP -.3750 IN.
						ZMRP .0150
						SCALE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 DAS9 0A111A-(N24 RS V8)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(BER005)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(BER006)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 IN.
(BER012)	ARC 66-709 DAS9 0A111A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6255 IN.
(BER014)	DATA NOT AVAILABLE	.000	.000	16.300	YMRP .0000 IN.
(BER015)	DATA NOT AVAILABLE	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

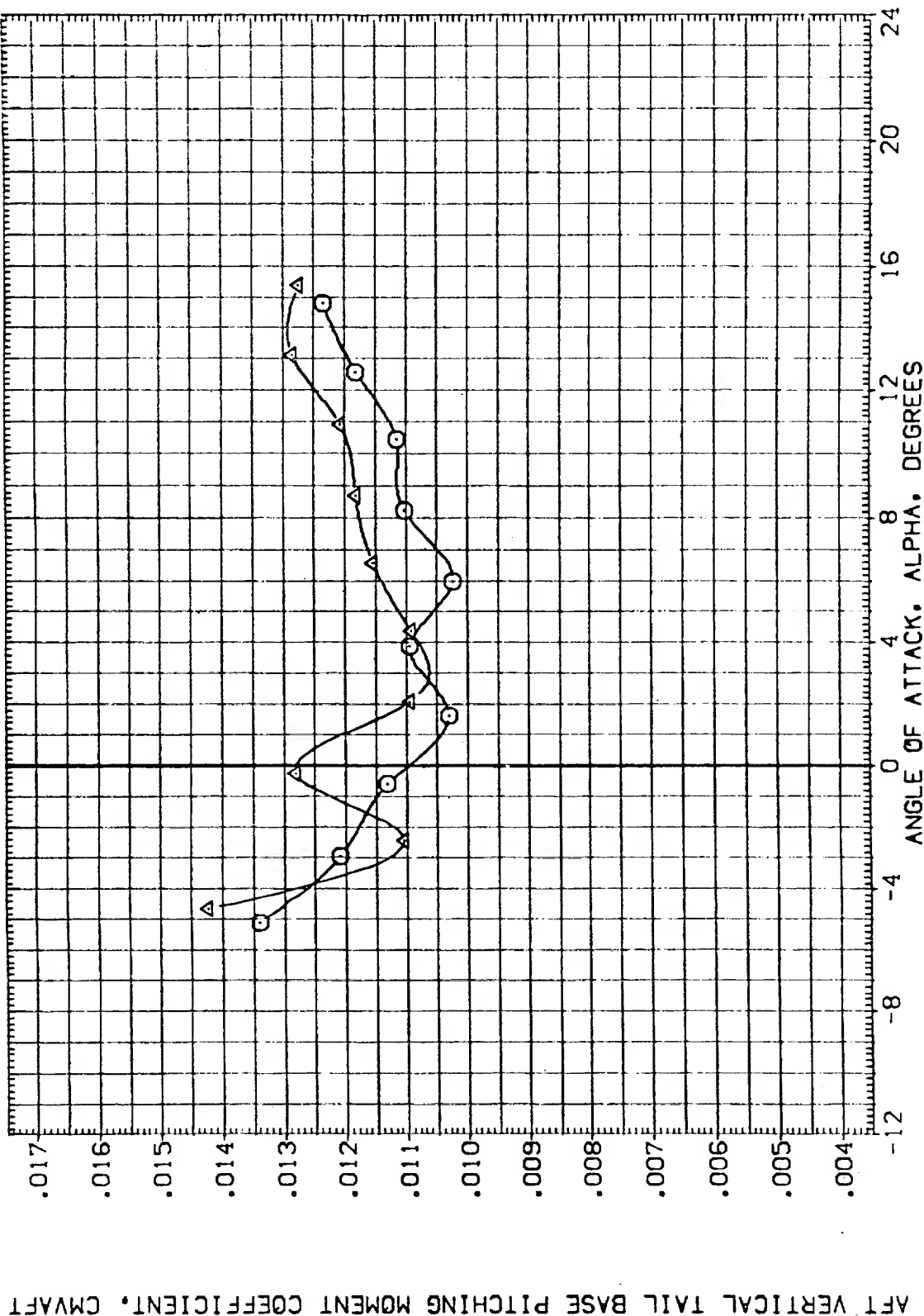


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(G)MACH = .95

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

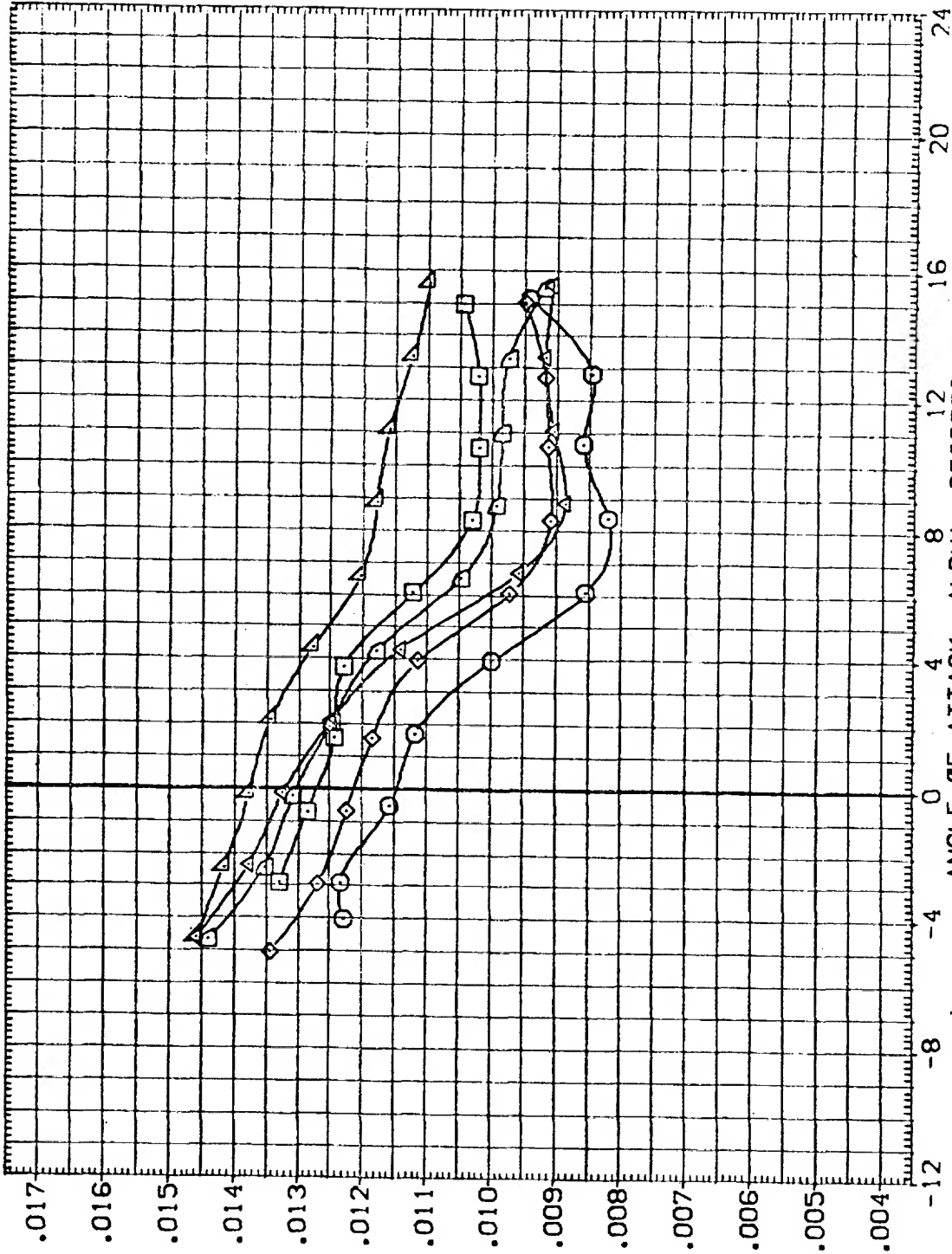


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(M)MACH = 1.21

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(BER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(BER005)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	16.300	LREF .5935 FT.
(BER006)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STING	.000	.000	.000	BREF 1.1710 FT.
(BER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	XMRP 12.6755 IN.
(BER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	YMRP .0000 IN.
(BER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	ZMRP -.3750 IN.
					SCALE .0150

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001) ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG

(BER005) ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT+DUM STNG

(BER006) DATA NOT AVAILABLE

(BER012) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT

(BER014) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT

(BER015) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

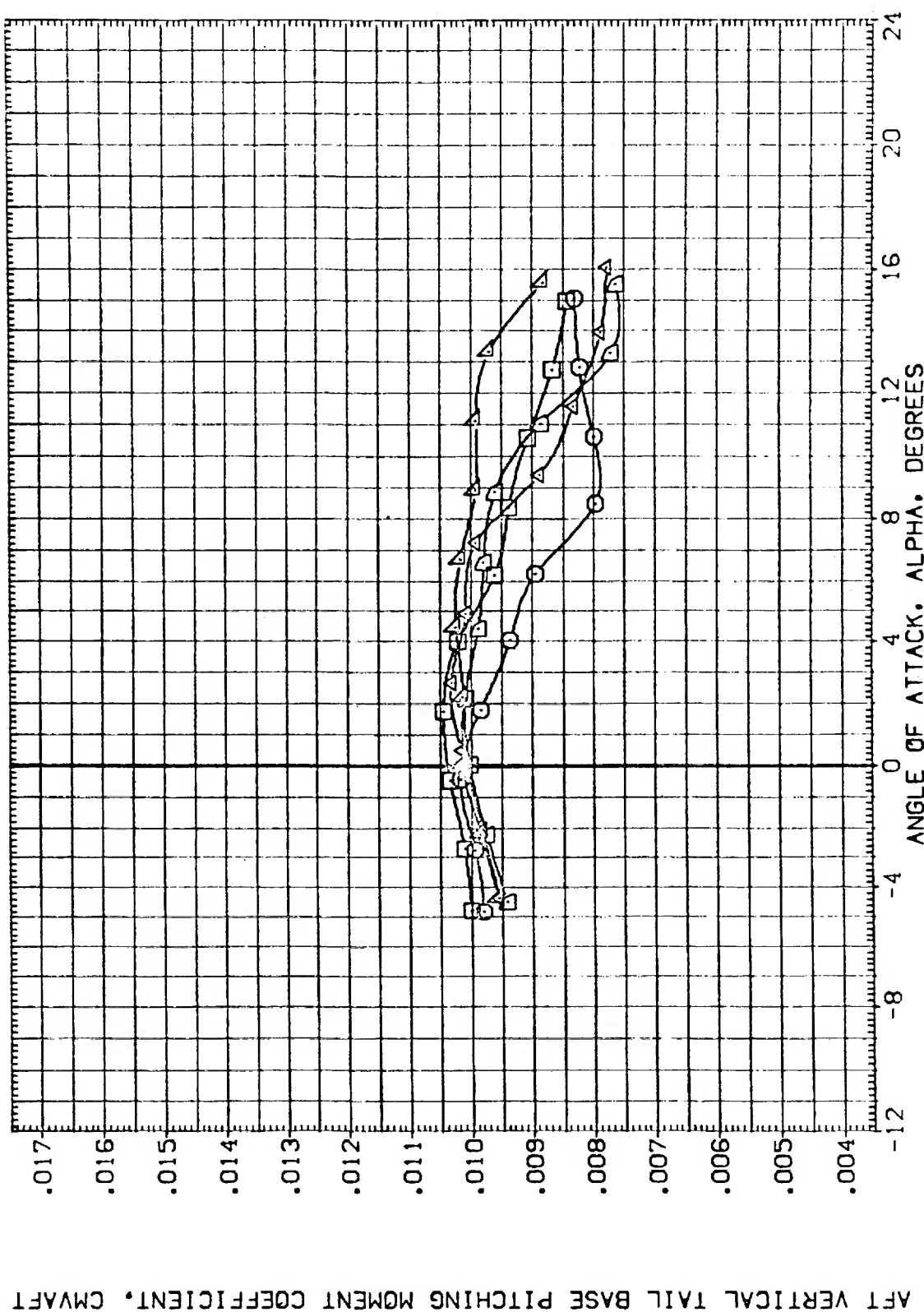


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(1)MACH = 1.50

AFT VERTICAL TAIL BASE PITCHING MOMENT COEFFICIENT, CMVAFT

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BER001)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG
(BER005)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG
(BER006)	ARC 66-709 QAS9 0A11A-(N24 RS V8)+STRUT+DUM STNG
(BER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT
(BER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT
(BER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000	.000	-11.700
.000	.000	16.300
.000	.000	.000
.000	.000	-11.700
.000	.000	16.300
.000	.000	.000

REFERENCE INFORMATION

SREF	.6053	SO.FT.
LREF	.5935	FT.
BREF	1.1710	IN.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

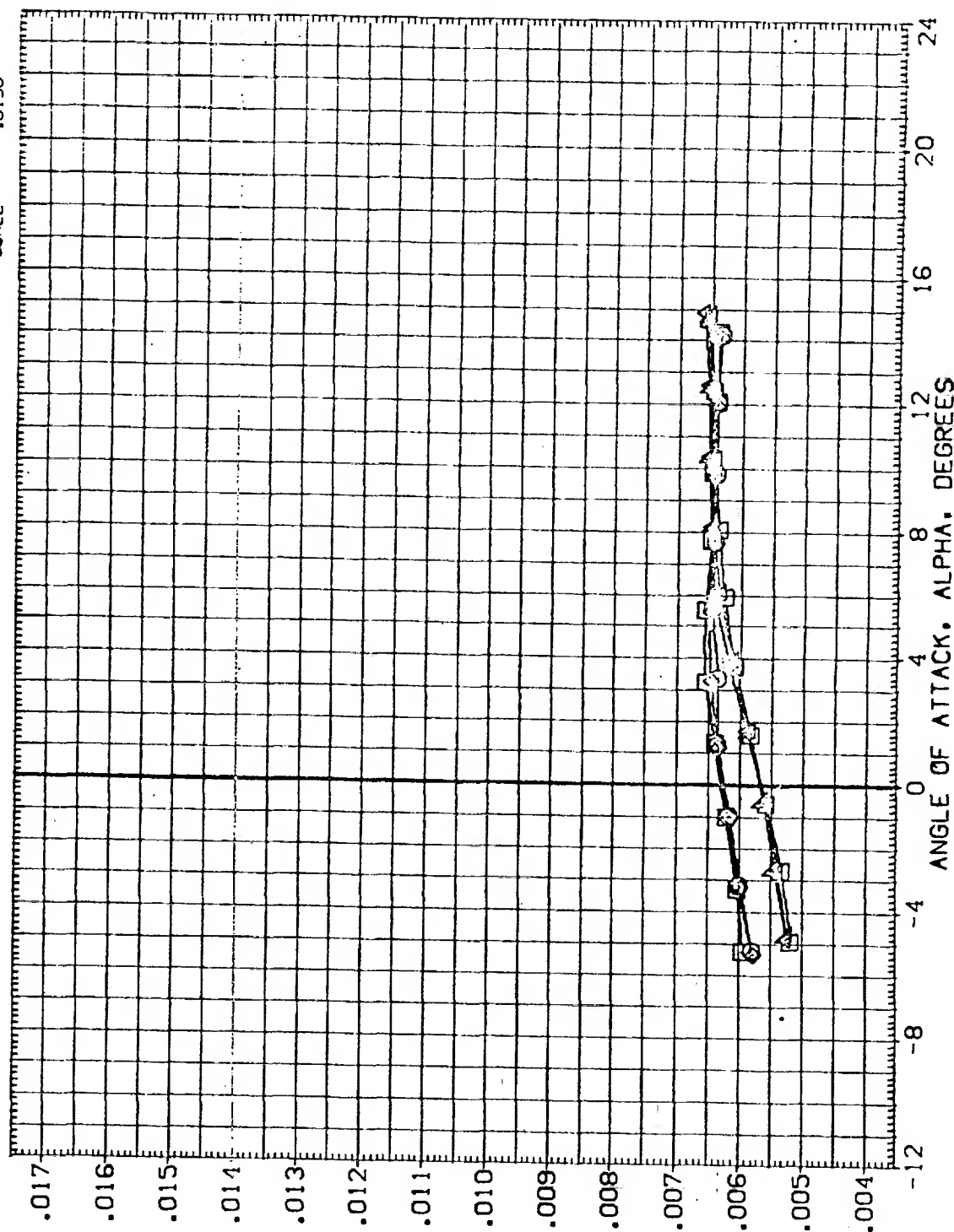


FIG. 5 BODY FLAP EFFECTS DURING TARE PITCH RUNS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(KER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

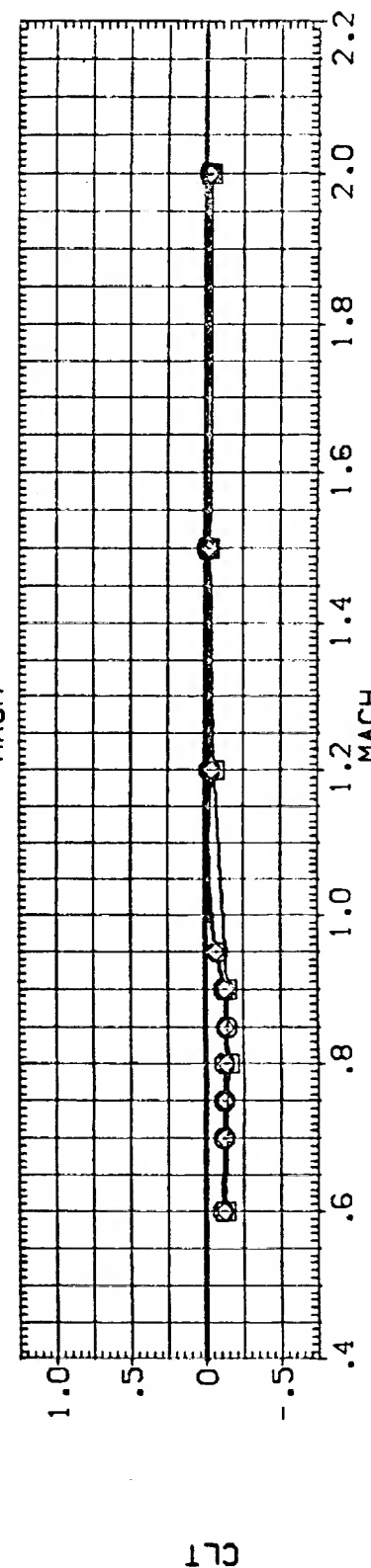
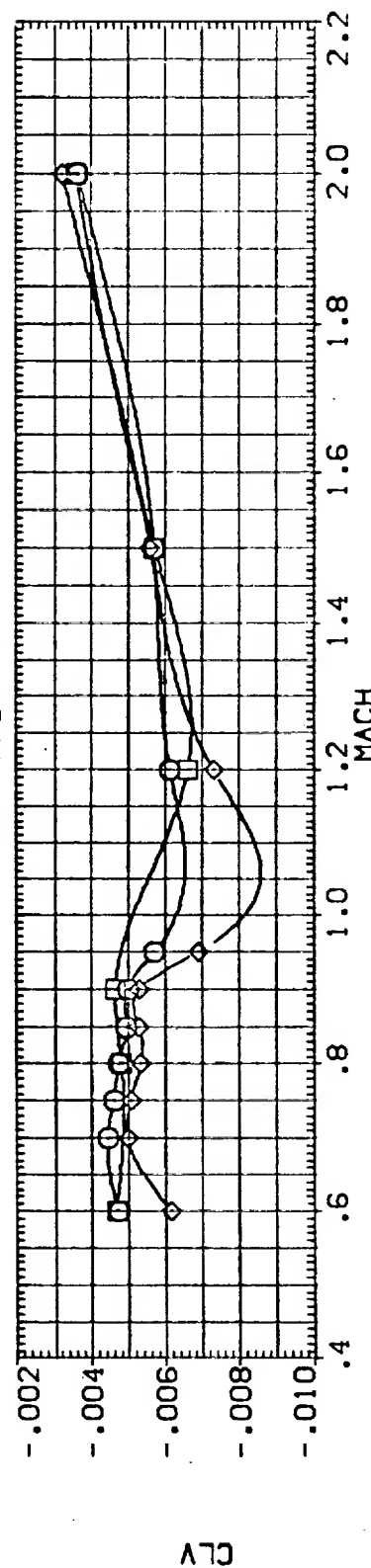
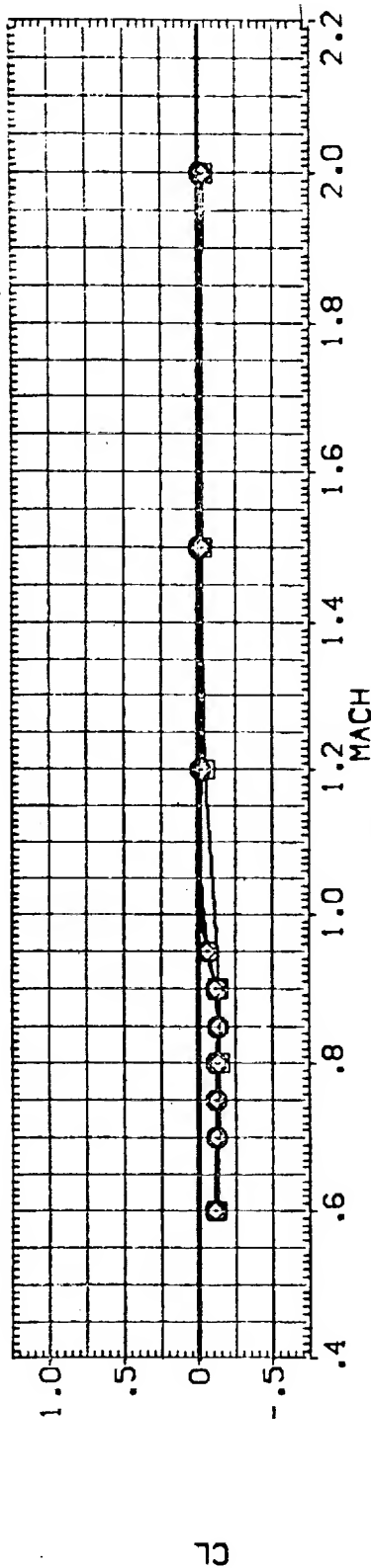


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(α) ALPHA = .00

DATA SET SYMBOL	DATA SET SYMBOL
[KERO01]	[KERO01]
[KERO09]	[KERO09]
[KERO12]	[KERO12]

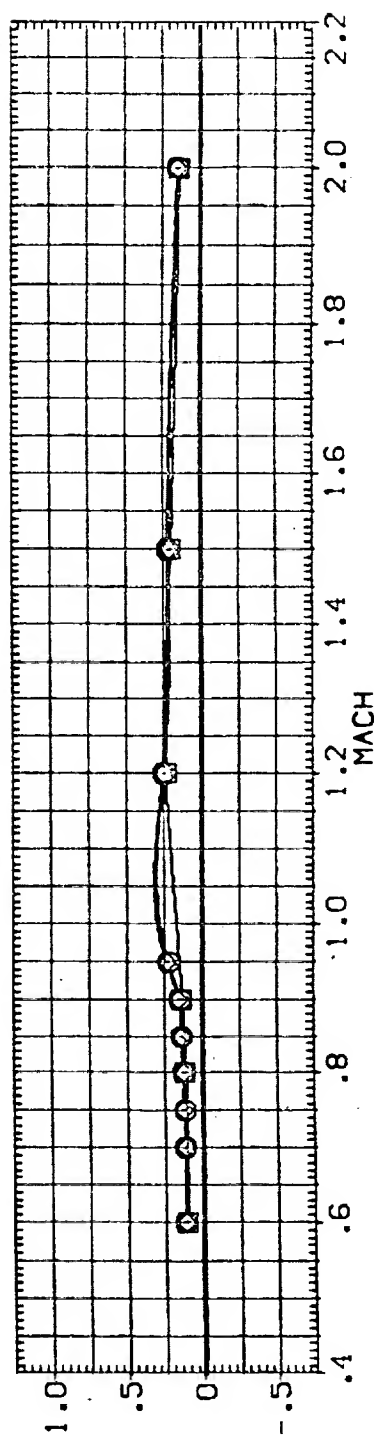
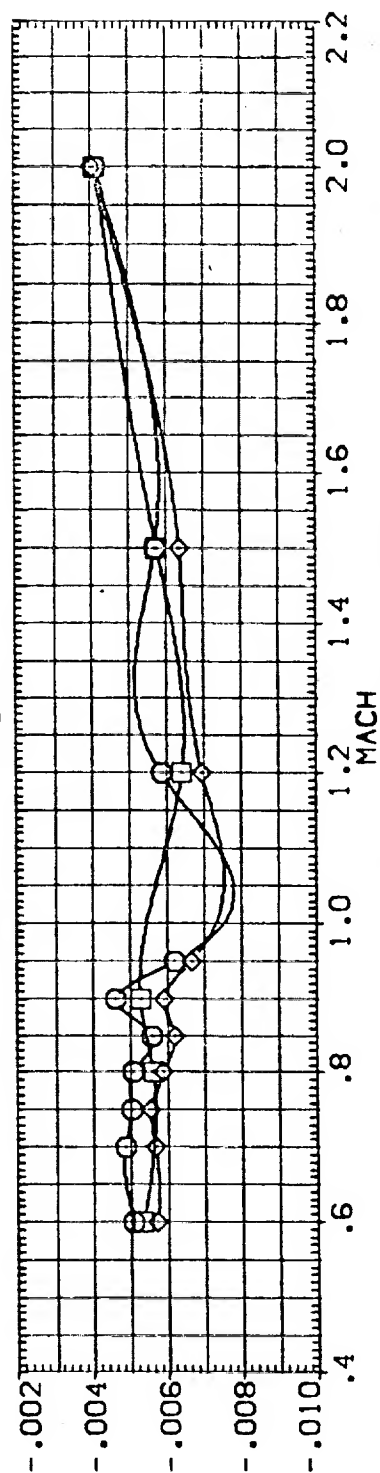
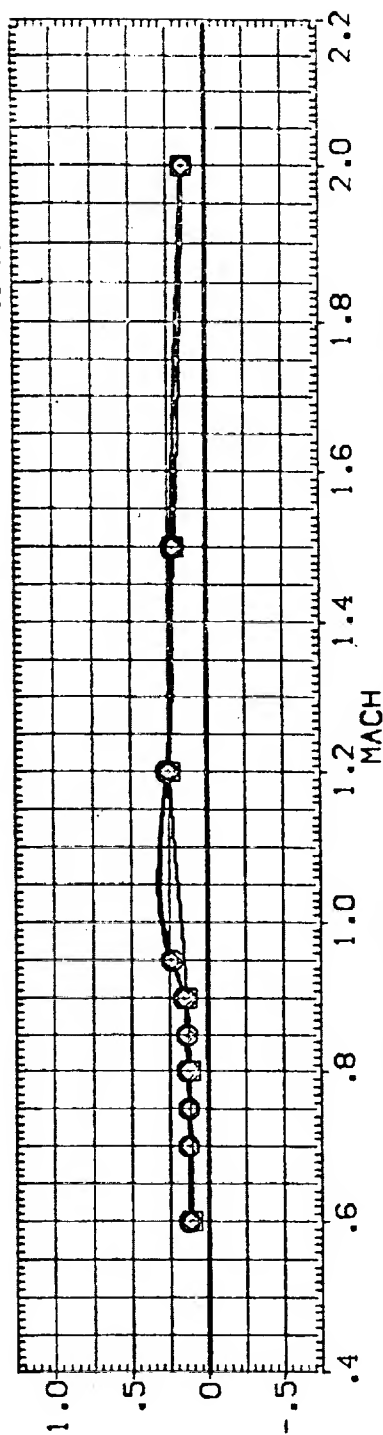


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B)ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80% LAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 QAS9 C111A-(N24 RS V81)*STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(KERO09)	ARC 66-709 QAS9 C111A-(N24 RS V81)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(KERO12)	ARC 66-709 QAS9 C111A-(RS V81)*STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

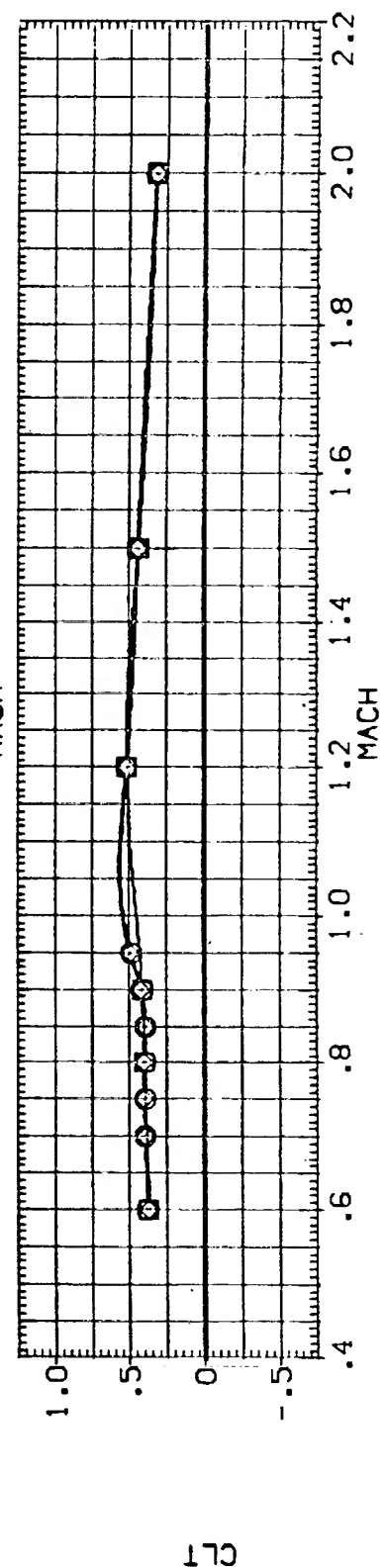
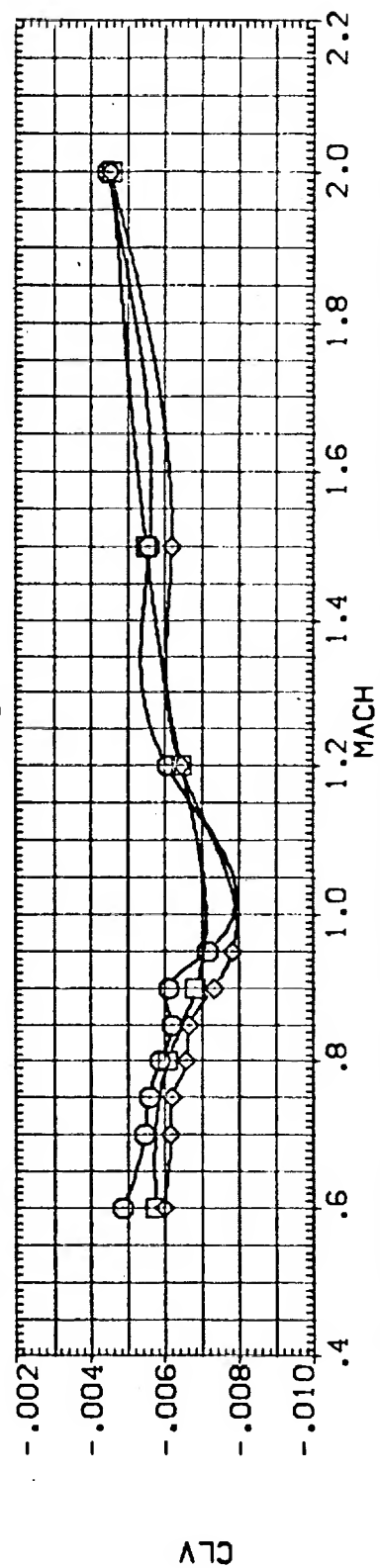
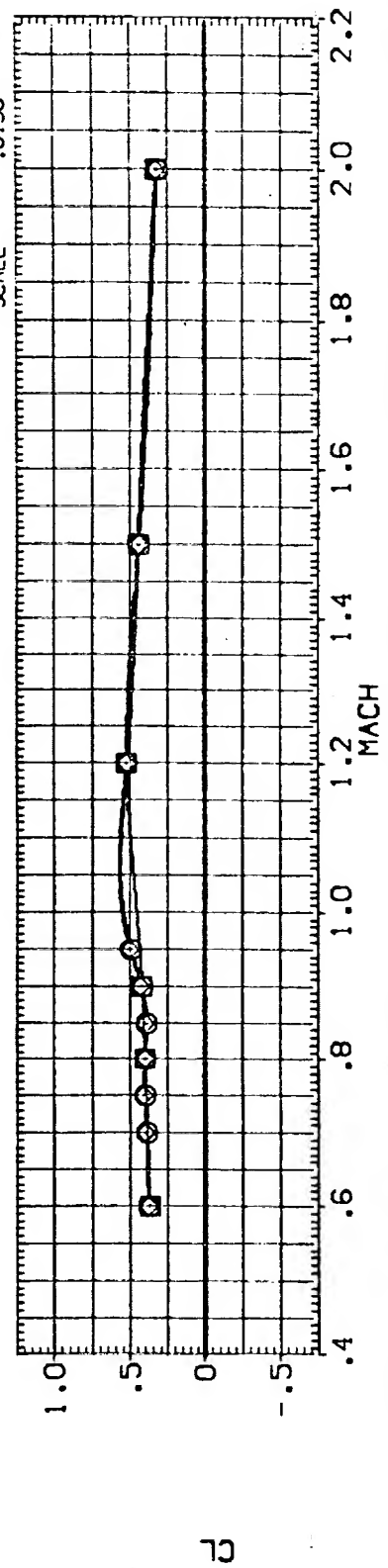
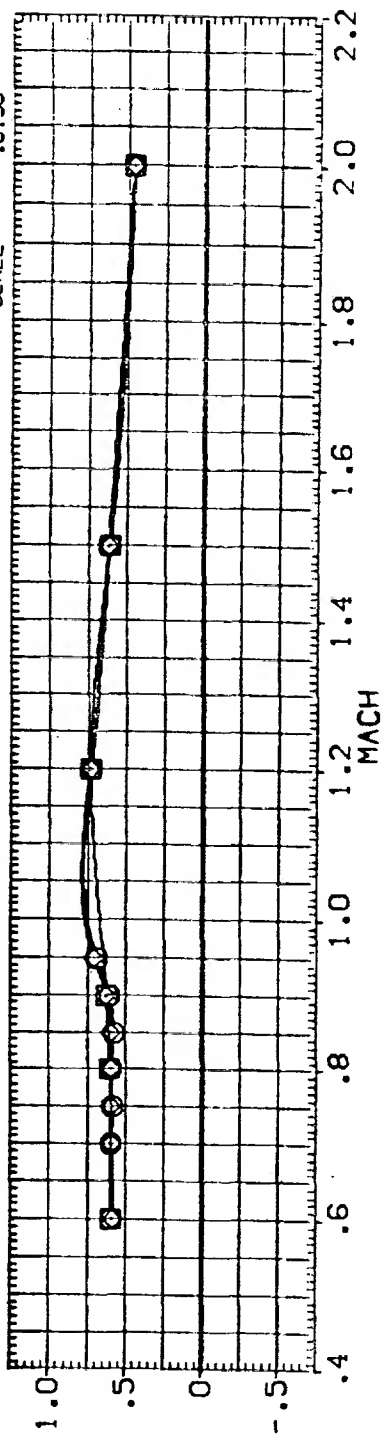


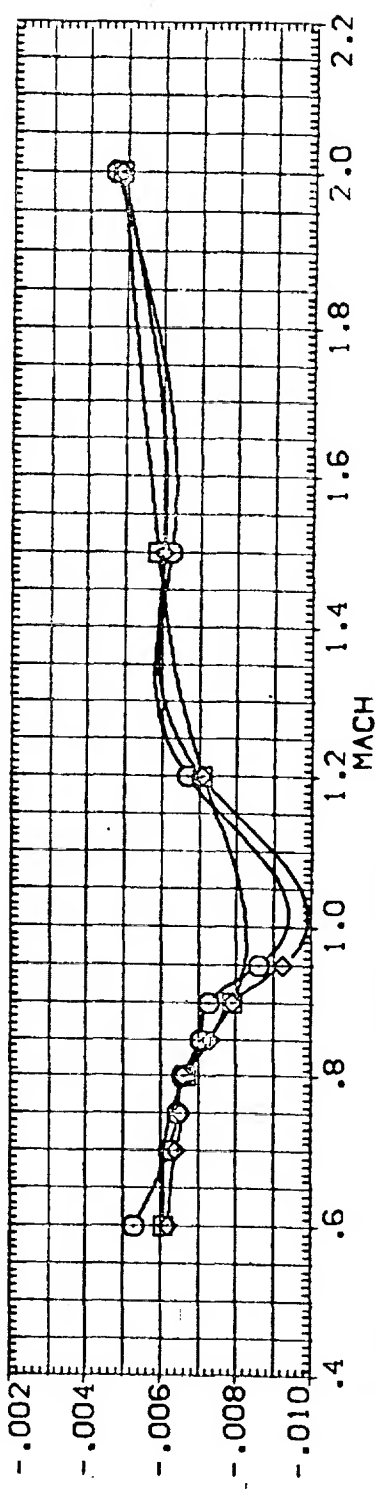
FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

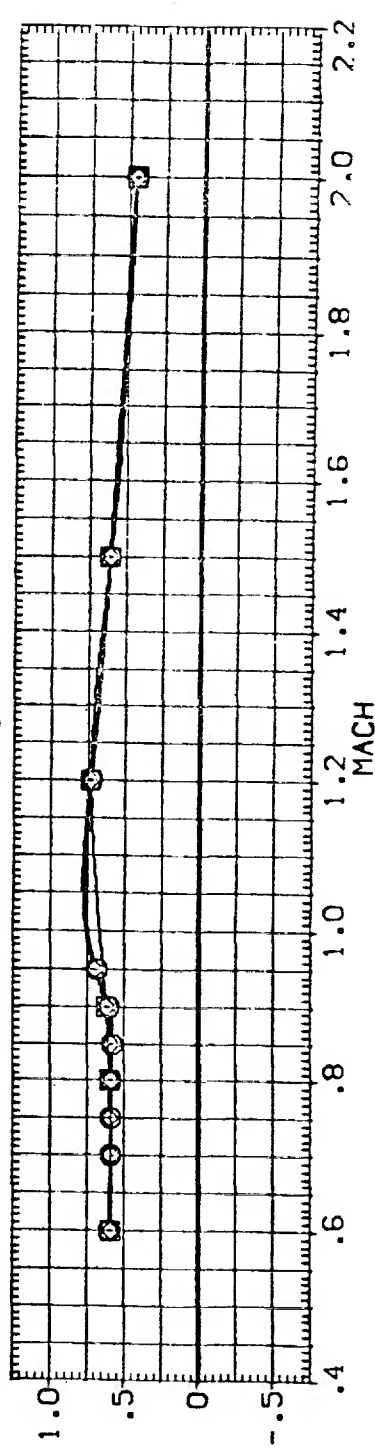
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 D459 D411A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(KERO09)	ARC 66-709 D459 D411A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KERO12)	ARC 66-709 D459 D411A-(R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150



CL



CLV



CLT

FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(KER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

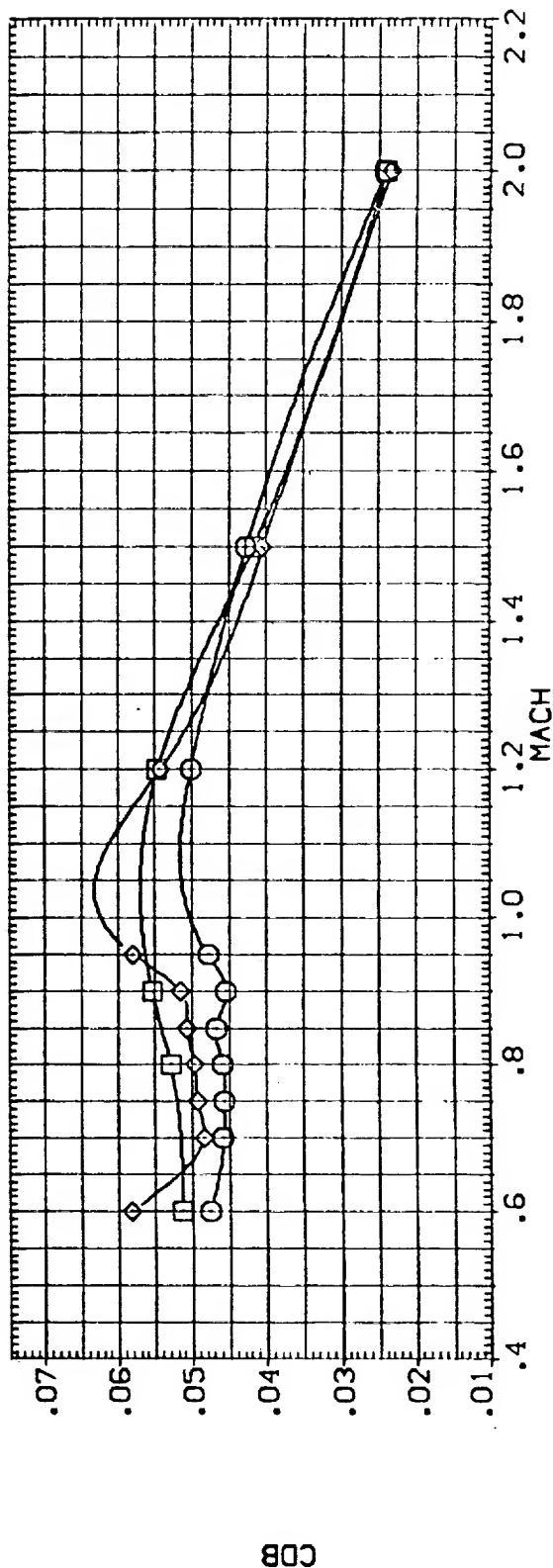
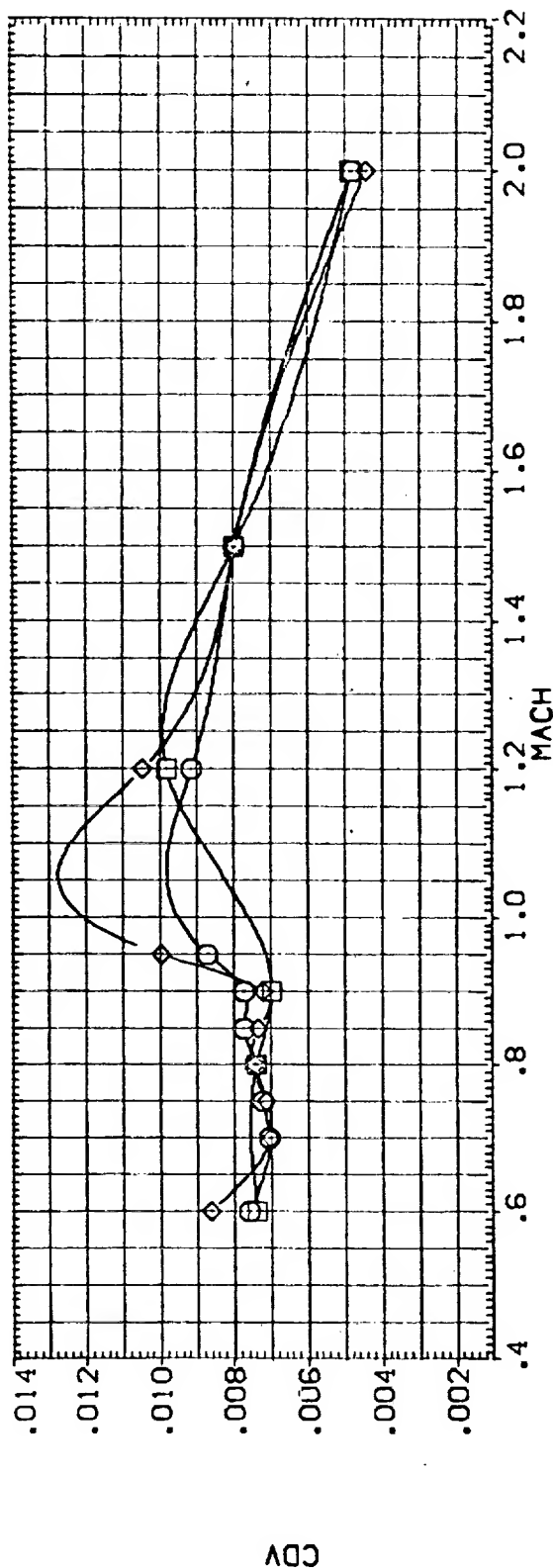


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KER001)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(KER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT	.000	.000	-11.700	LREF .5935 FT.
(KER012)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 IN.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

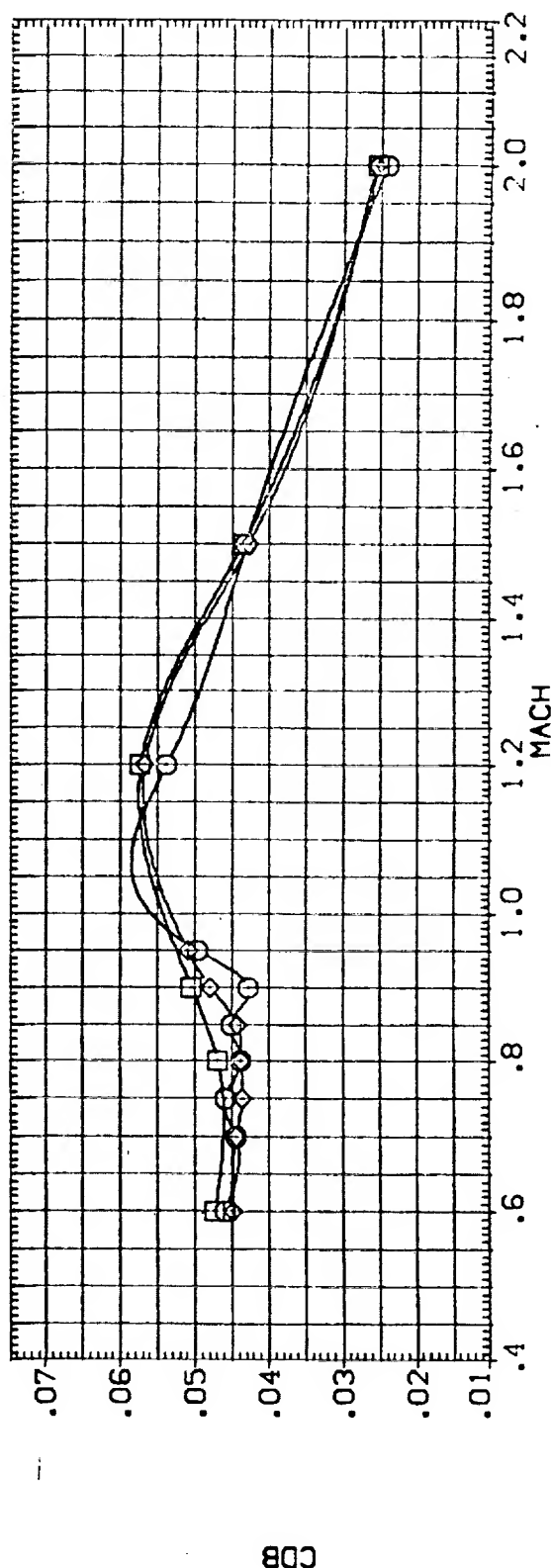
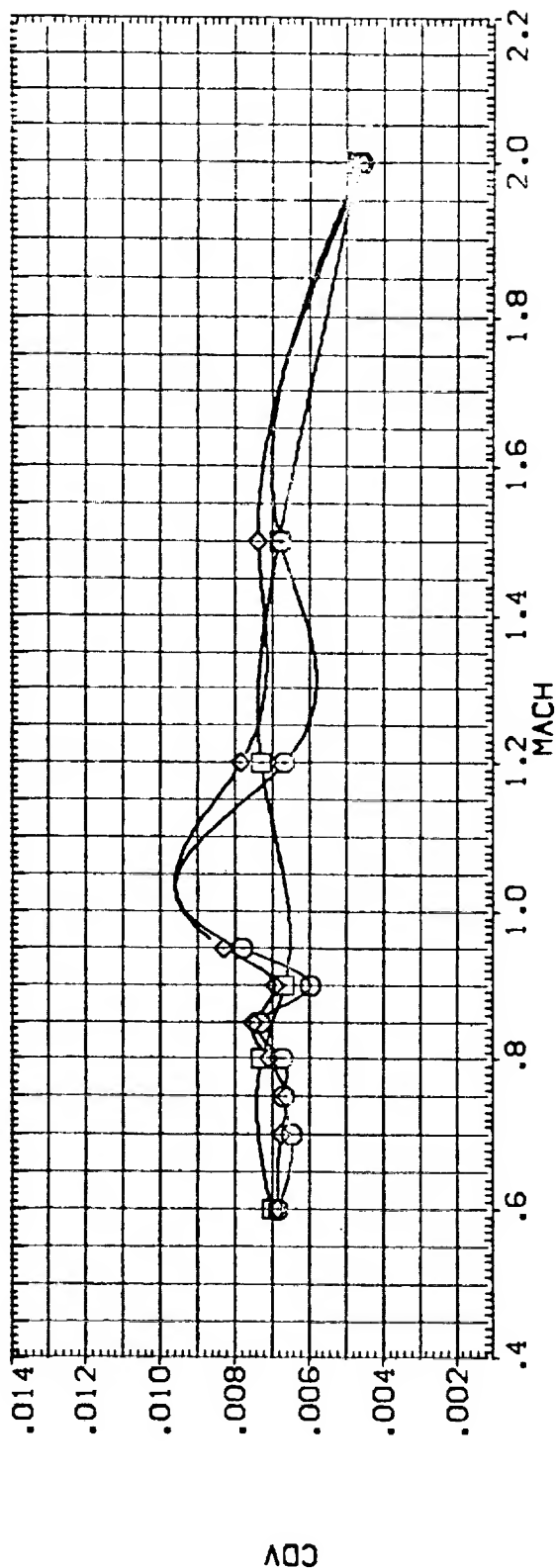


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 OA59 OA11A-(N24 R5 V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 50.FT.
(KERO09)	ARC 66-709 OA59 OA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(KERO12)	ARC 66-709 OA59 OA11A-(R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

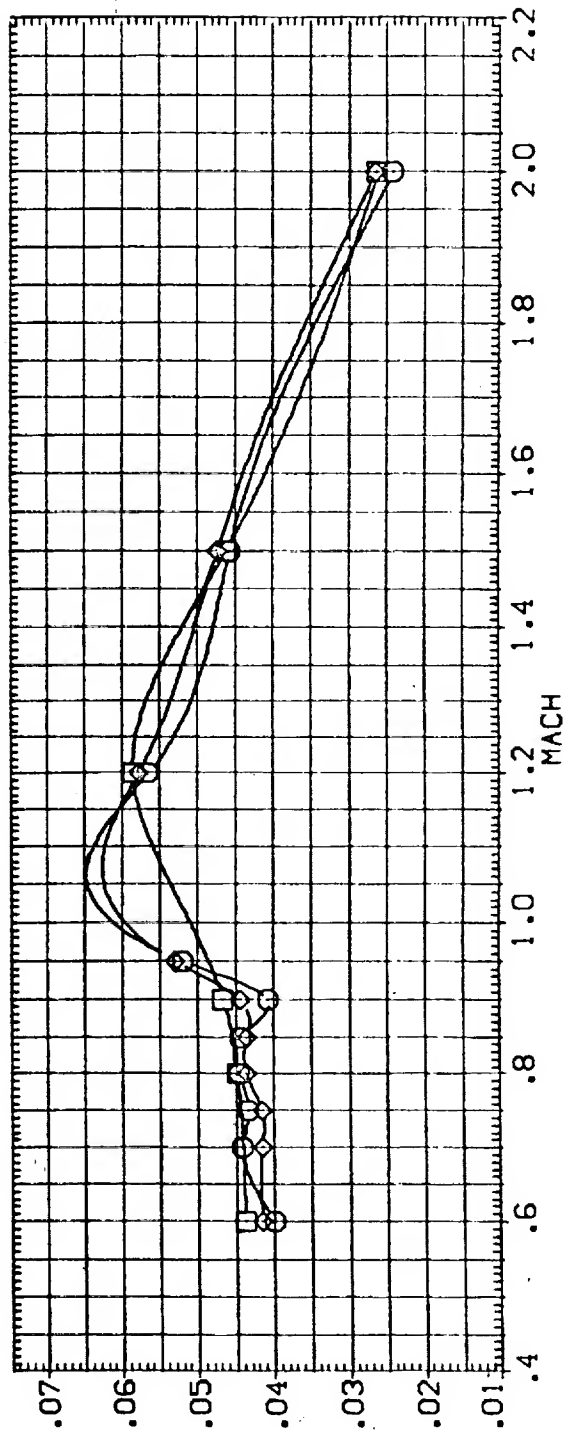
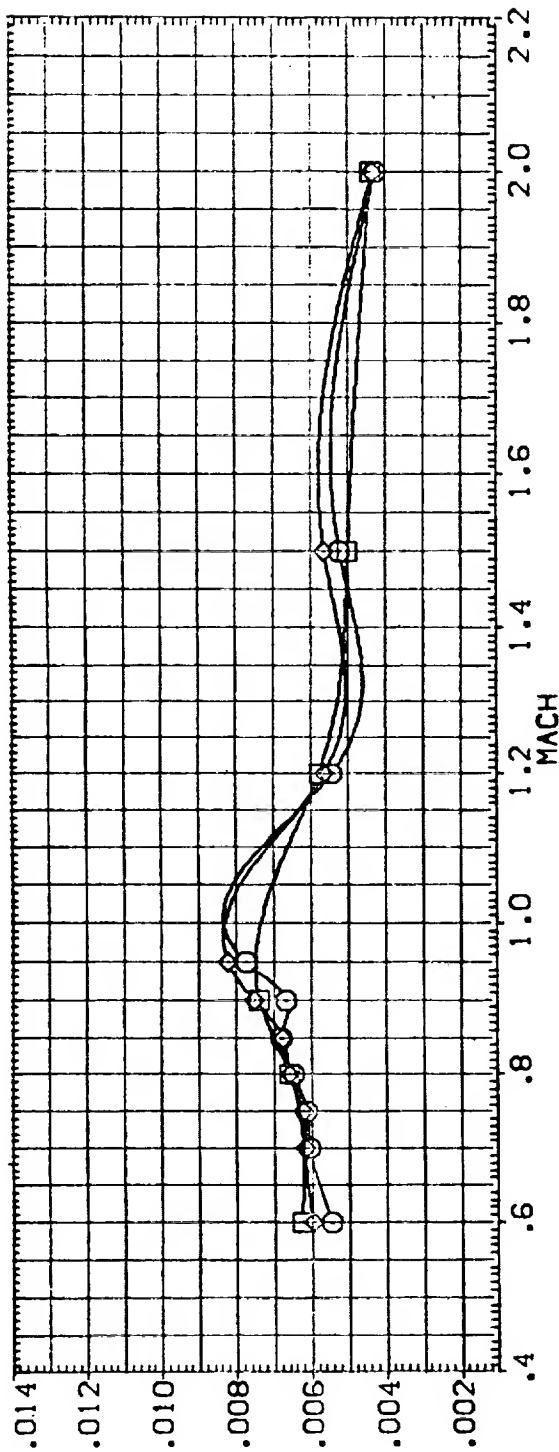


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(CJALPHA = 10.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[KER001]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
[KER009]	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
[KER012]	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

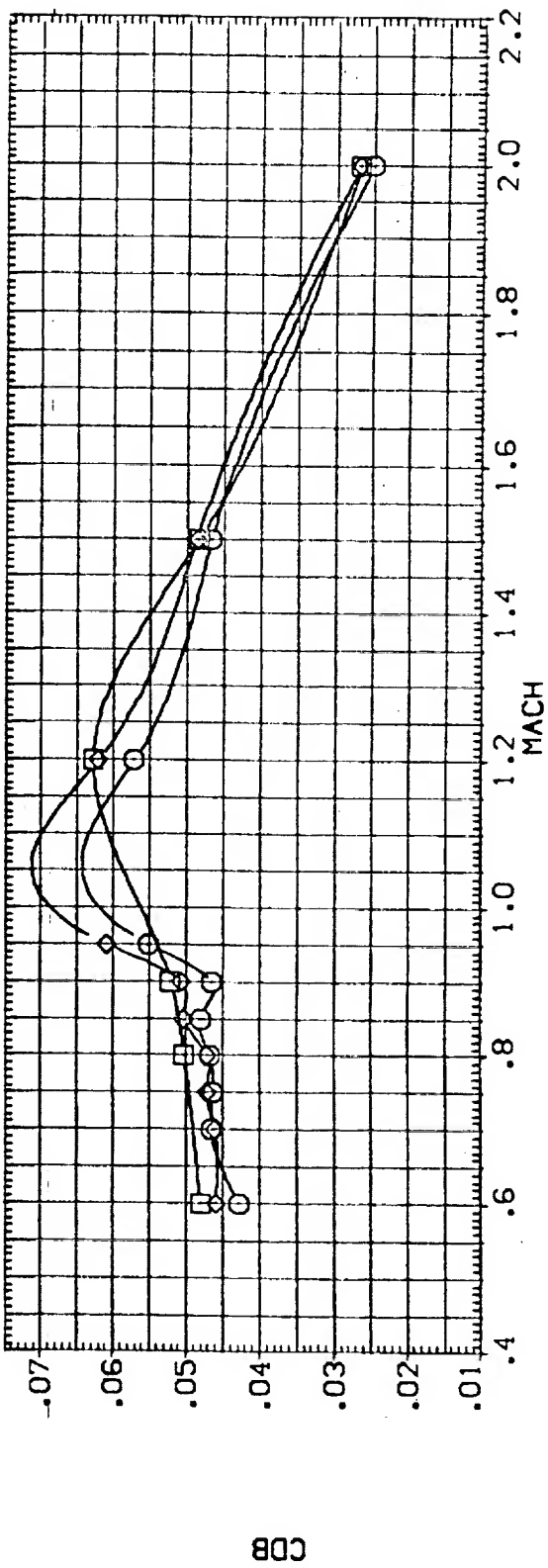
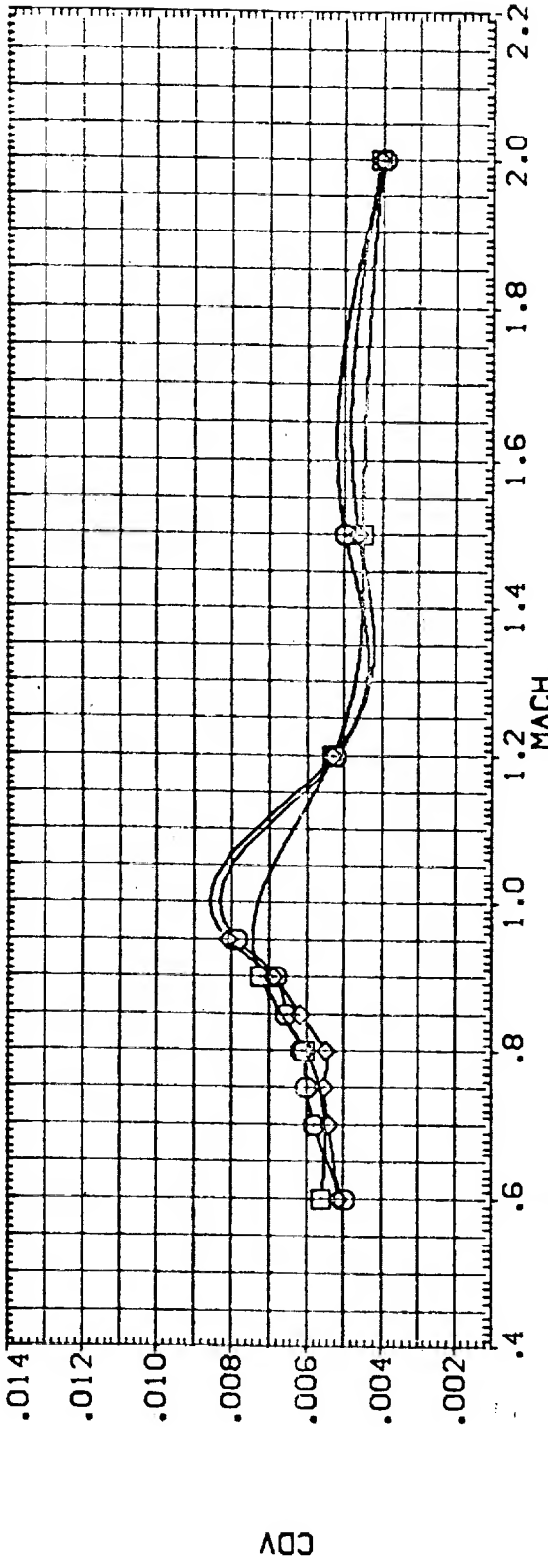


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(O) ALPHA = 14.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(KER001) ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STING .000 .000 -11.700

(KER009) ARC 66-709 D459 D411A-(N24 RS V8)+STRUT .000 .000 -11.700

(KER012) ARC 66-709 D459 D411A-(RS V8)+STRUT .000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

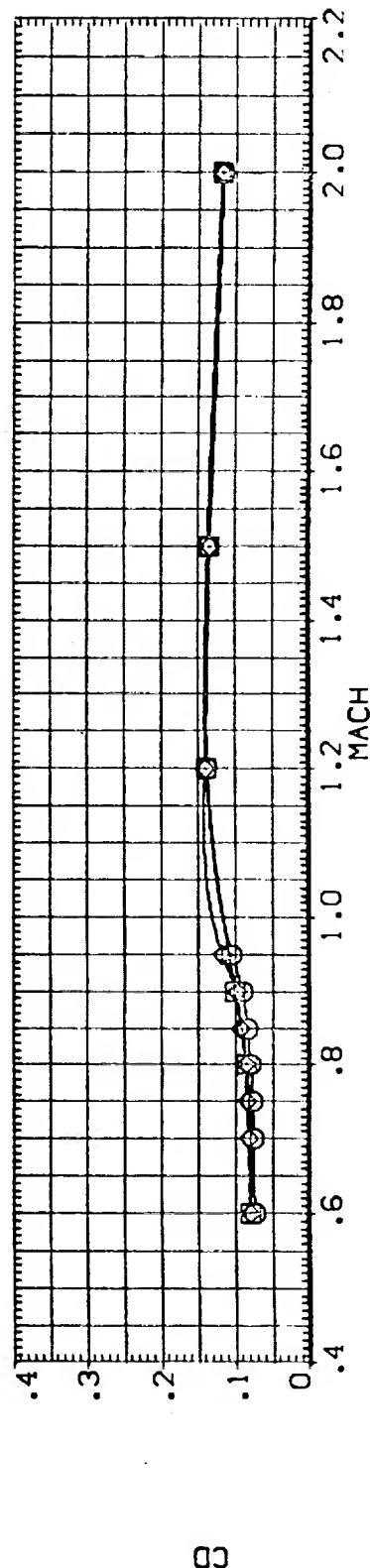
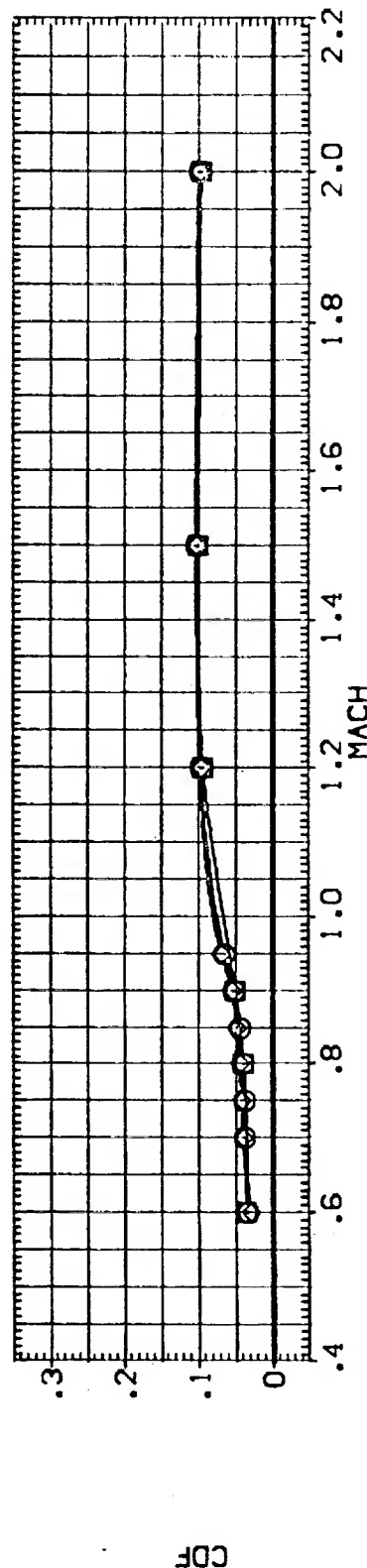
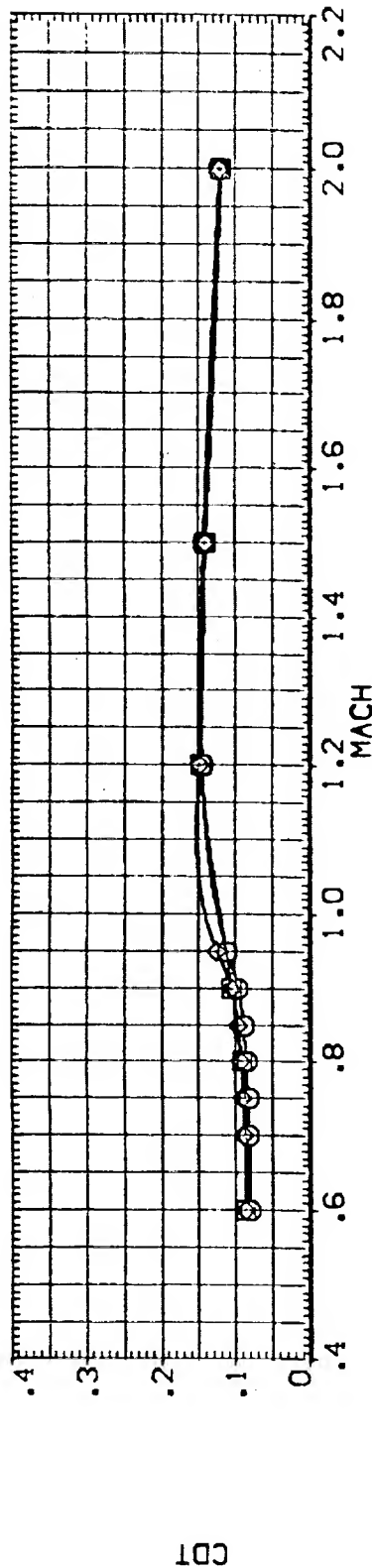


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A)ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{KER001}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{KER009}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{KER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

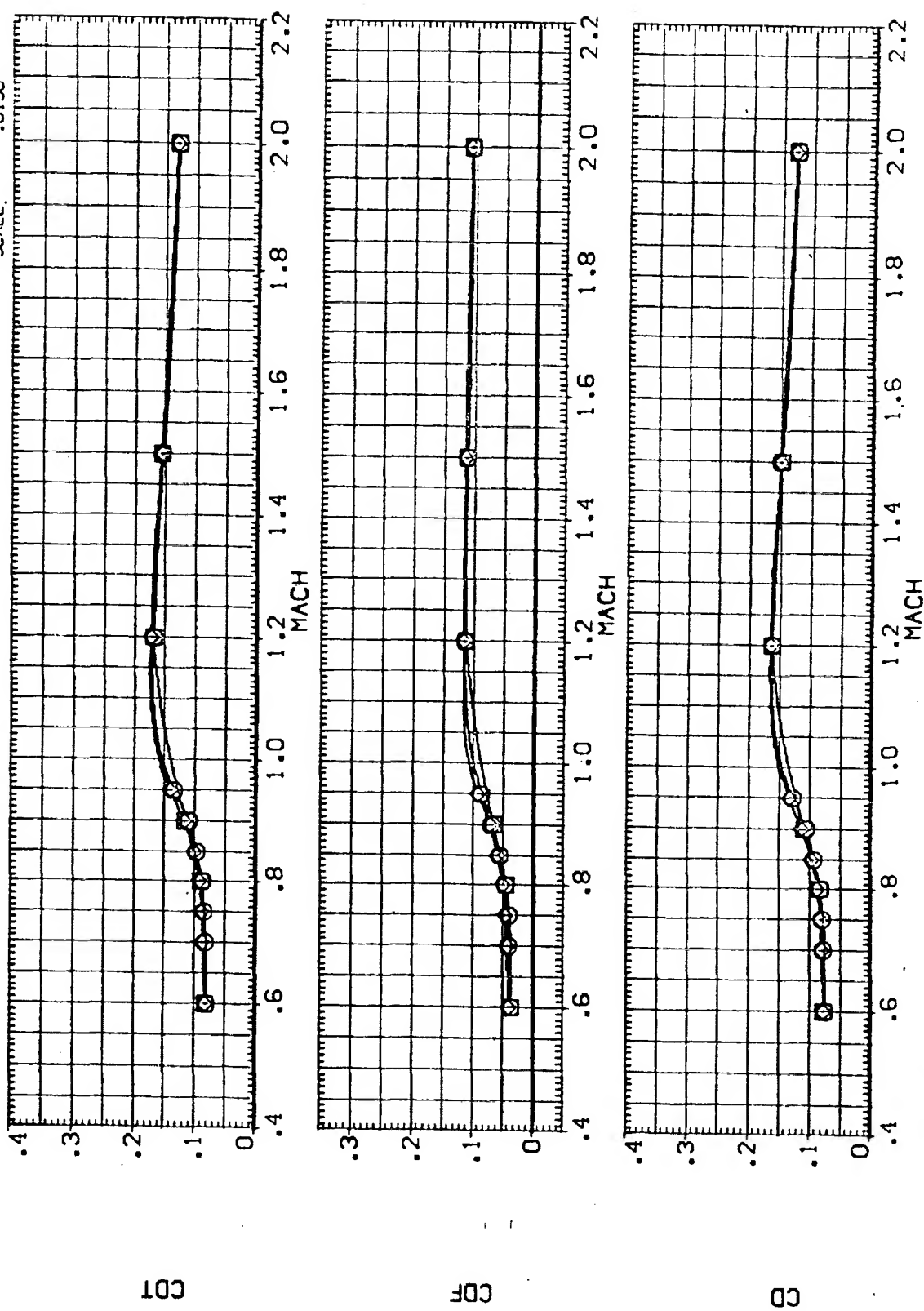


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B)ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(KERO01)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(KERO09)	ARC 66-709 0A59 0A11A-(N24 RS V81)-STRUT	.000	.000	-11.700	LREF .5935 FT.
(KERO12)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

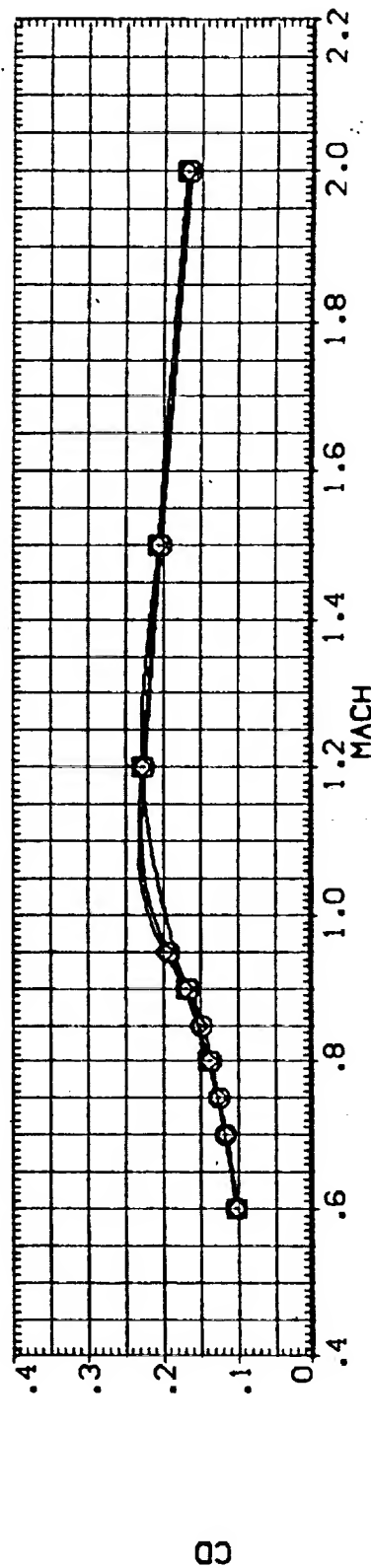
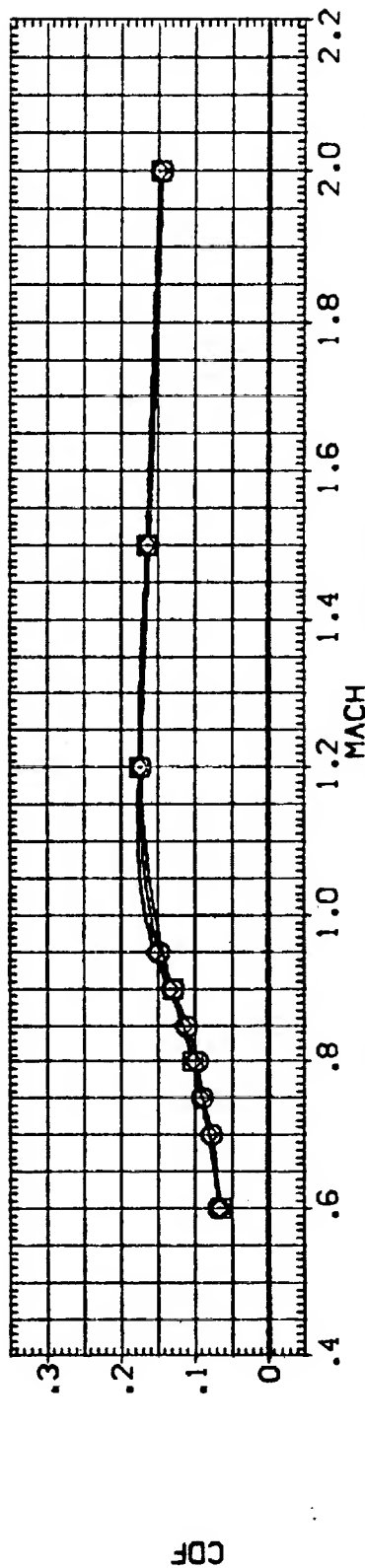
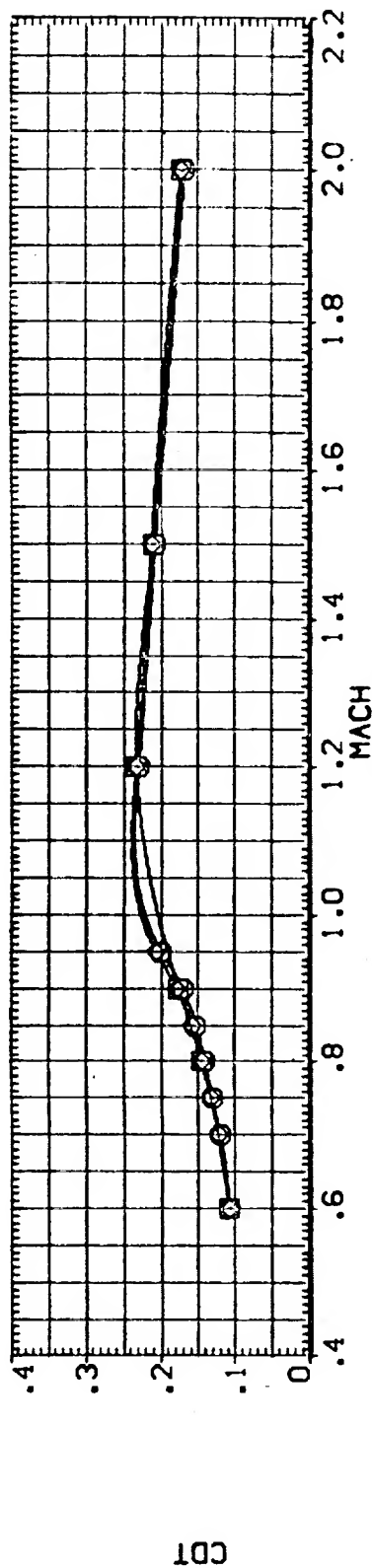


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{KERO01}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
{KERO09}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{KERO12}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

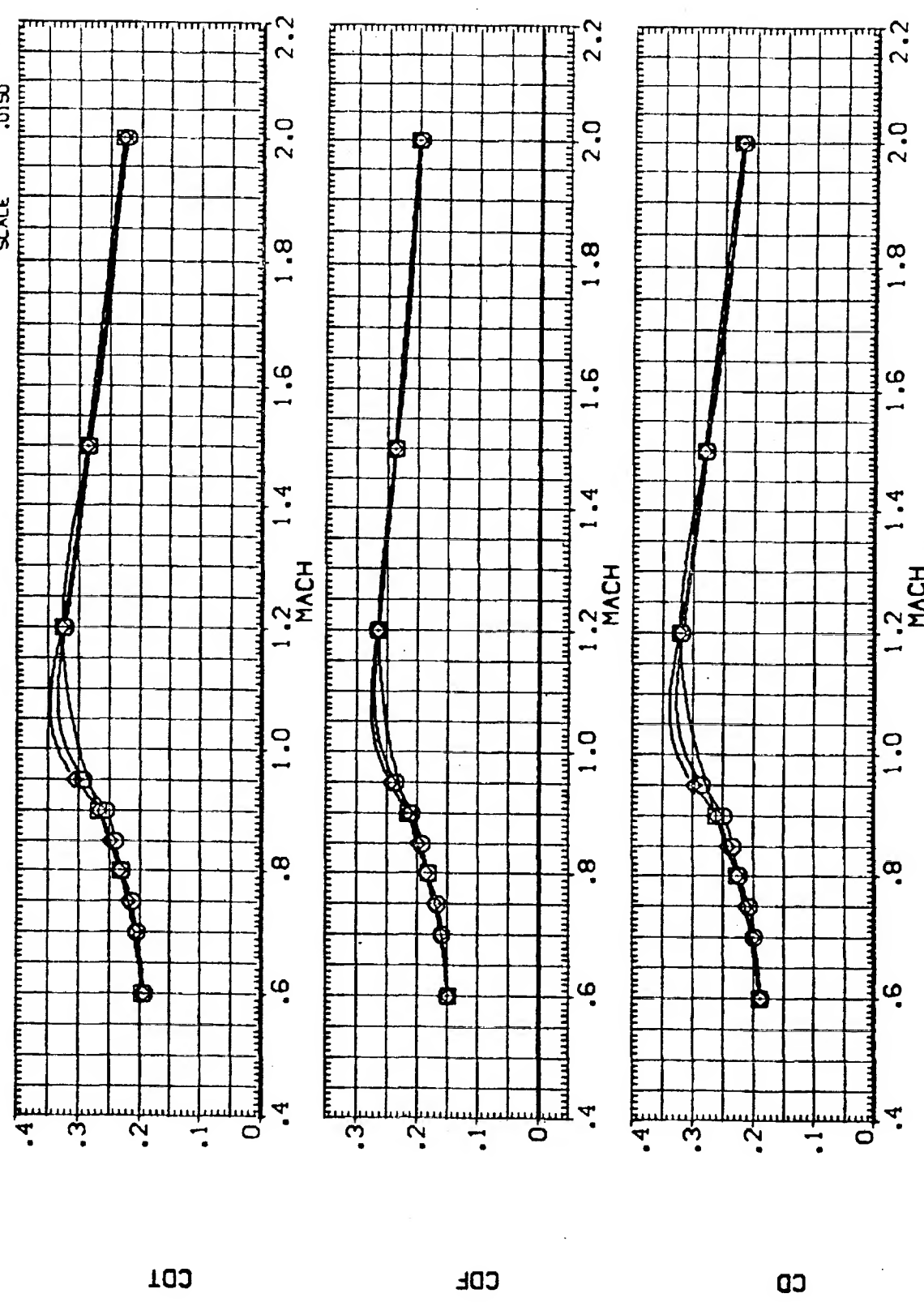


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LERO01)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 SQ.FT.
(LERO09)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LERO12)	ARC 66-709 DASS DA11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

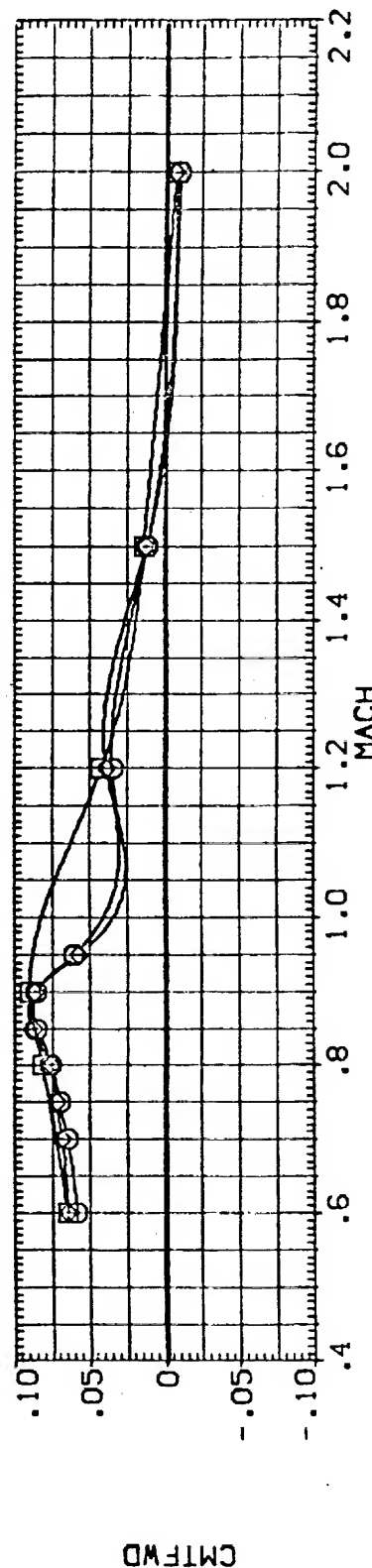
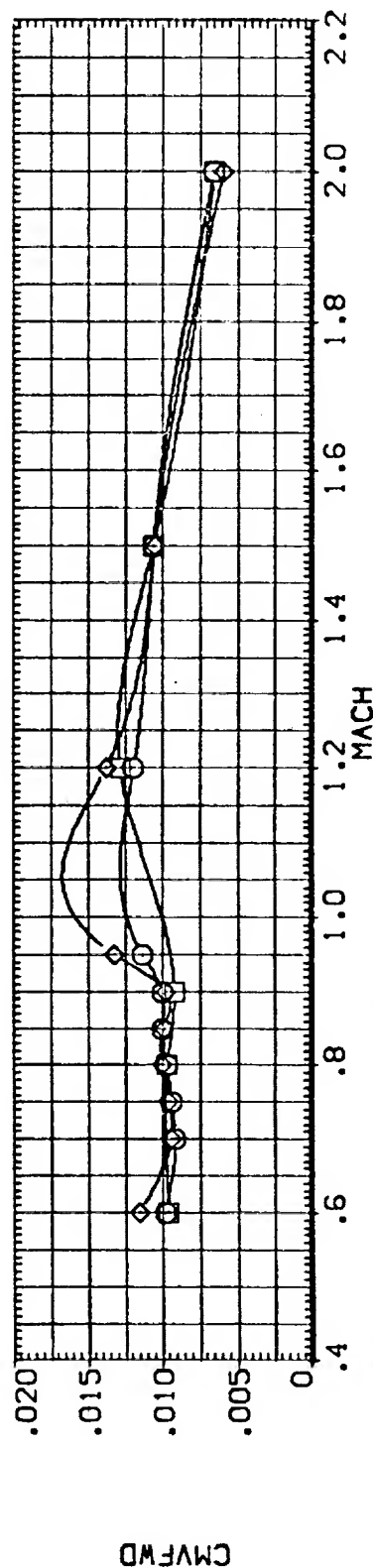
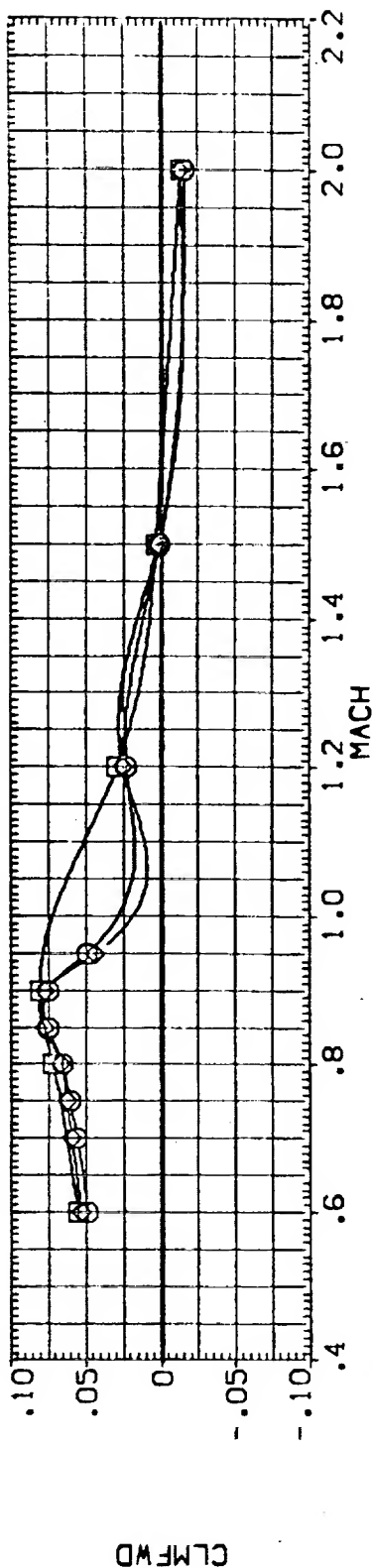


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A)ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

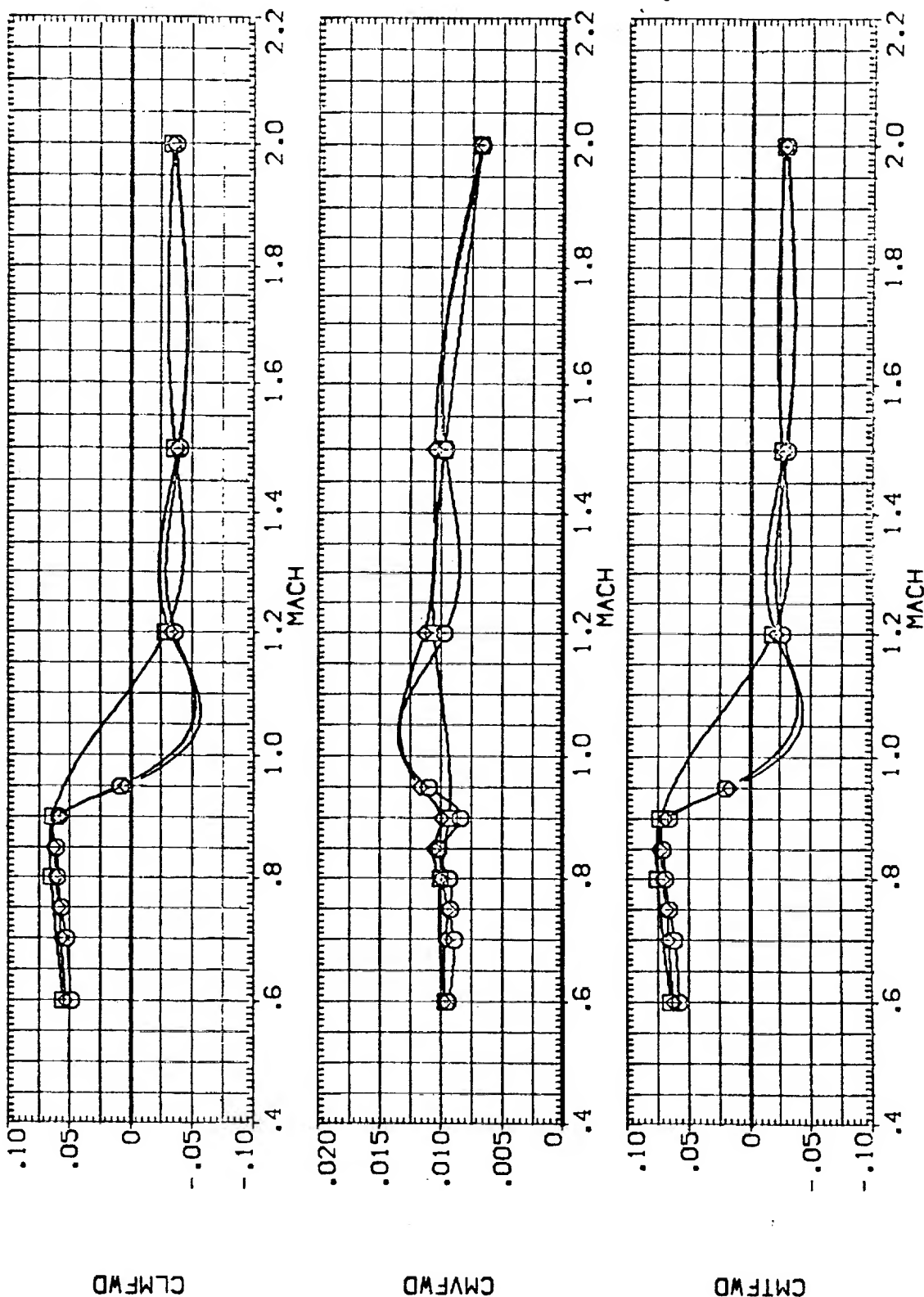


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 QAS9 DALLA-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709 QAS9 DALLA-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709 QAS9 DALLA-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

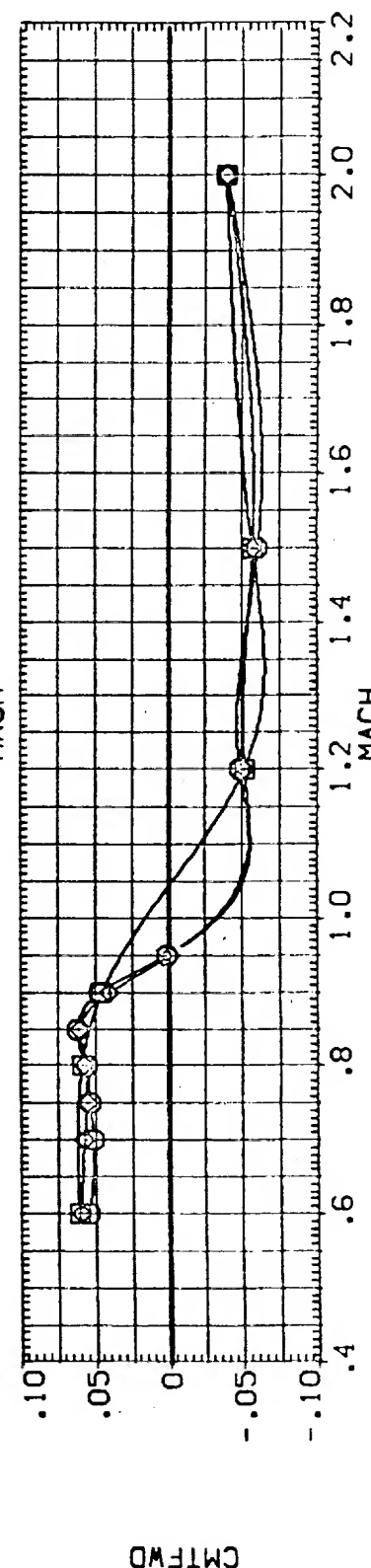
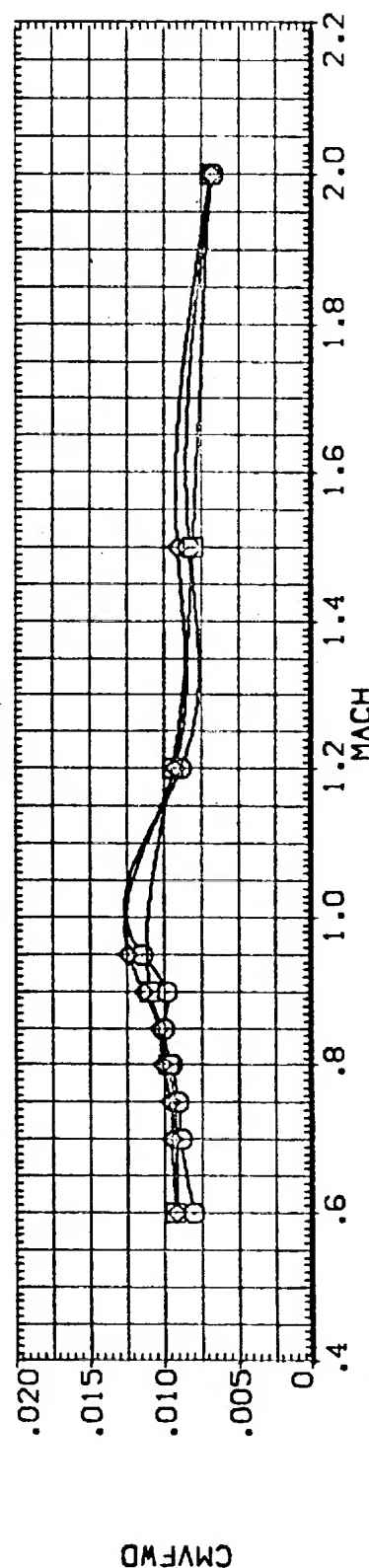
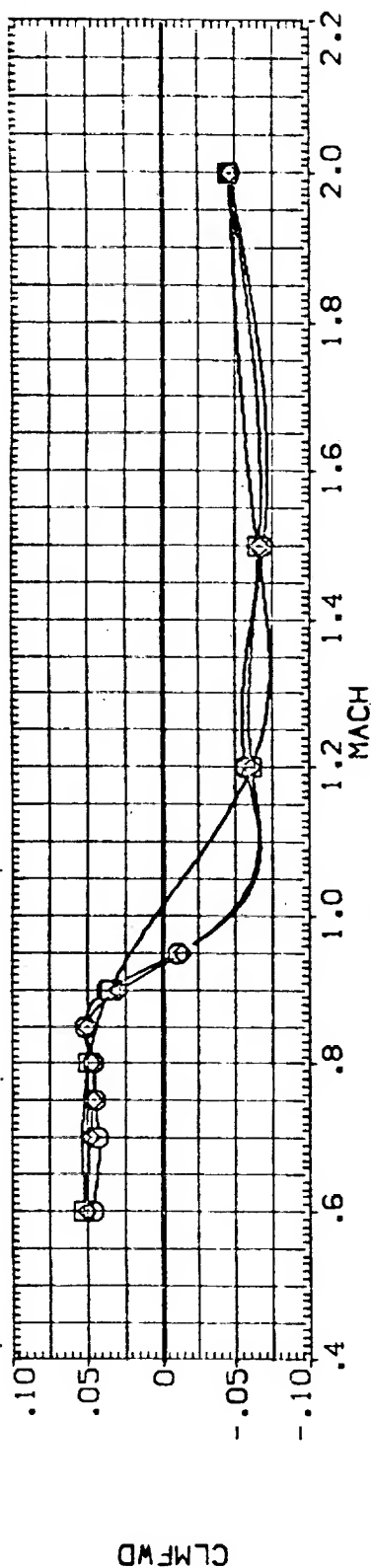


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (LER001) ARC 66-709 DASS9 DAI1A-(N24 RS V8)+STRUT+DUM STING
 (LER009) ARC 66-709 DASS9 DAI1A-(N24 RS V8)+STRUT
 (LER012) ARC 66-709 DASS9 DAI1A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

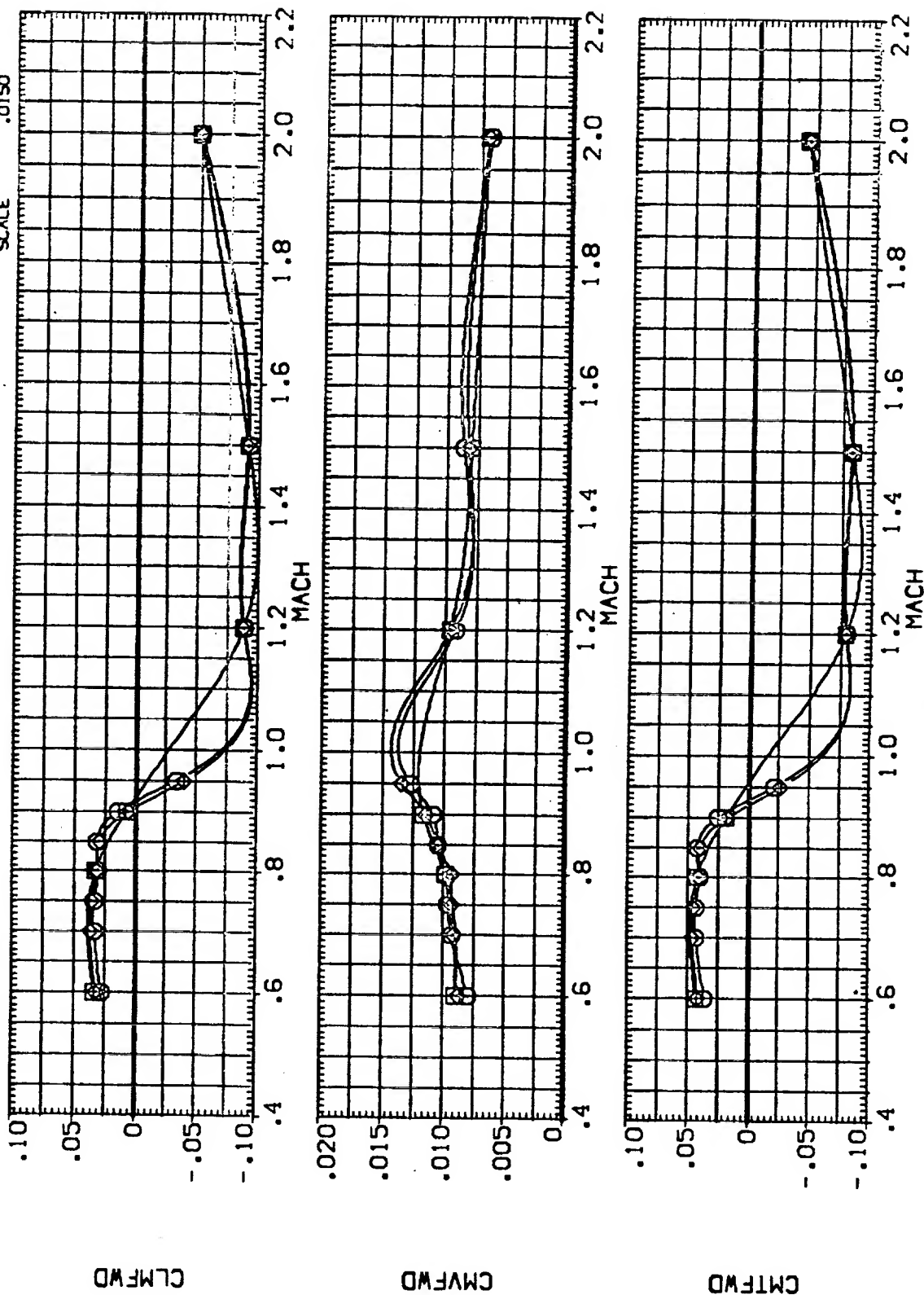


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(LER001) ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT+DUM STNG

(LER009) ARC 66-709 QAS9 0A11A-(N24 RS V8)-STRUT

(LER012) ARC 66-709 QAS9 0A11A-(RS V8)-STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

.000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

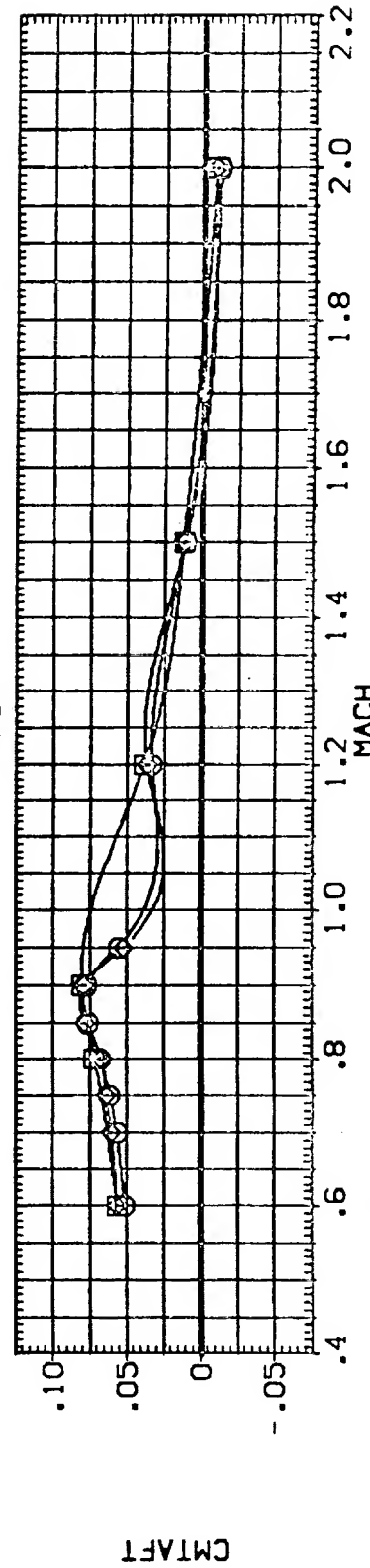
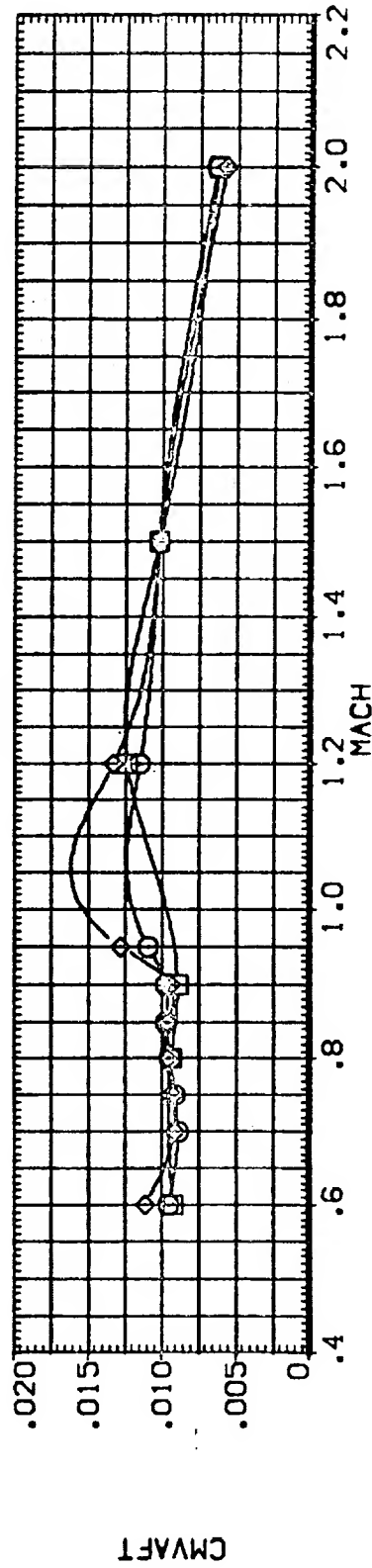
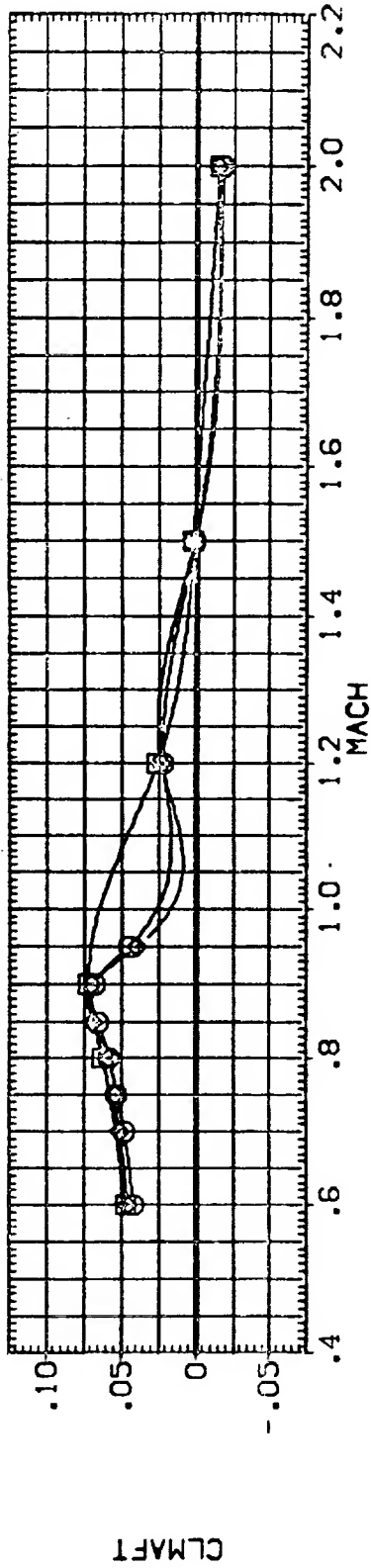


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A) ALPHA = .00

DATA SET SYMBOL
(LER001)
(LER008)
(LER012)

CONFIGURATION DESCRIPTION
ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT+DUM STNG
ARC 66-709 DASS DALLA-(N24 RS V8)+STRUT
ARC 66-709 DASS DALLA-(RS V8)+STRUT

BETA
.000
.000
.000

ELEVON
.000
.000
.000

BOFLAP
-11.700
-11.700
-11.700

REFERENCE INFORMATION
SPREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 IN.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

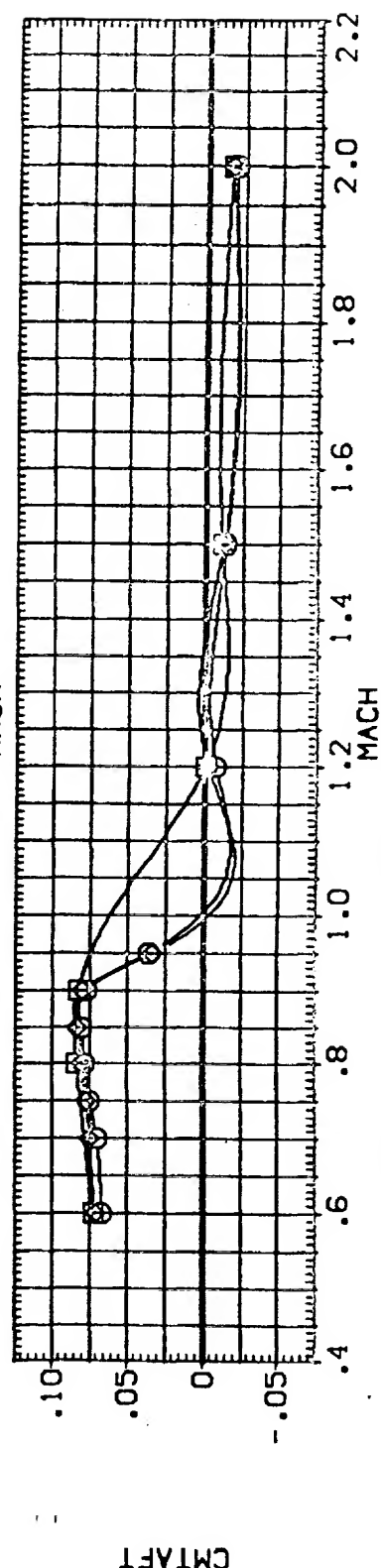
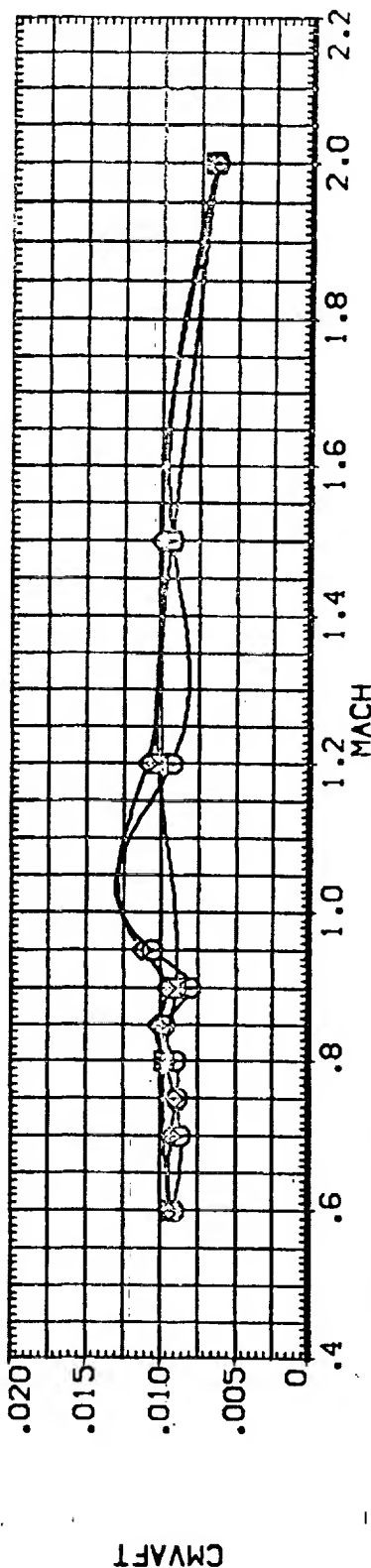
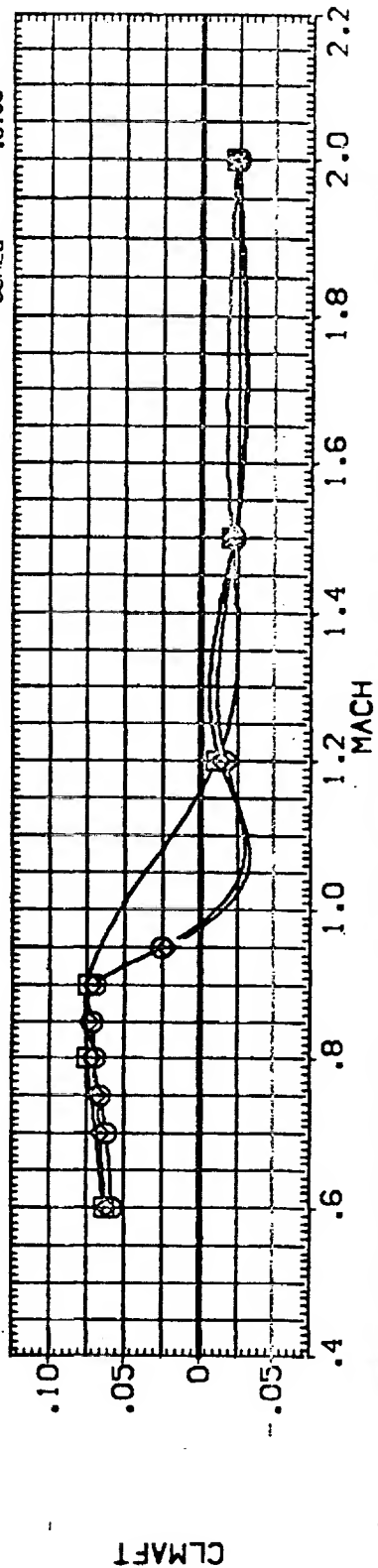


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B)ALPHA = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(LER001)
(LER009)
(LER012)

ARC 66-709 QAS9 0A11A-(N24 R5 V8)*STRUT+DUM STING
ARC 66-709 QAS9 0A11A-(N24 R5 V8)*STRUT
ARC 66-709 QAS9 0A11A-(R5 V8)*STRUT

BETA

.000
.000
.000

ELEVON

.000
.000
.000

BOFLAP

-11.700
-11.700
-11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

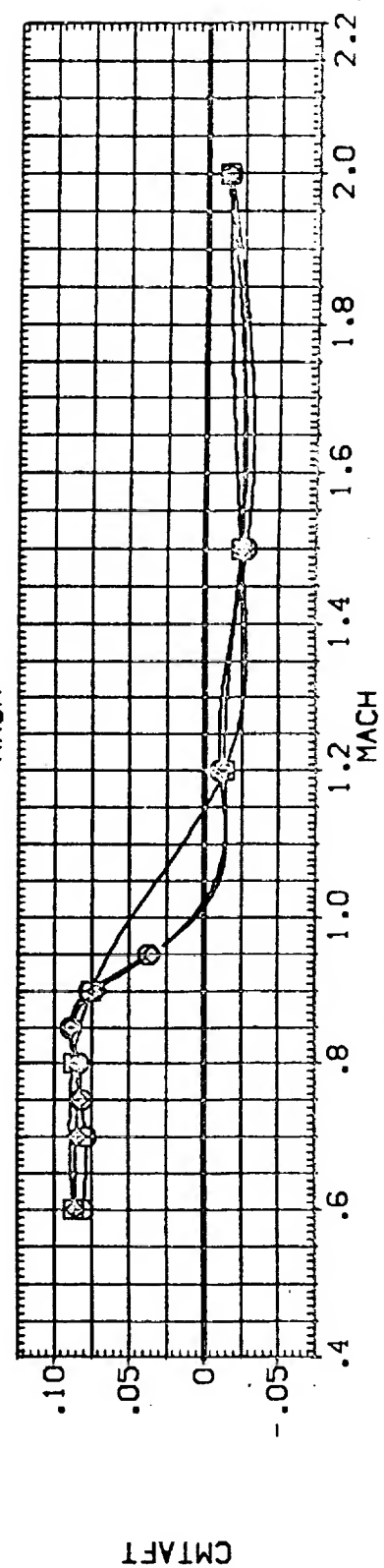
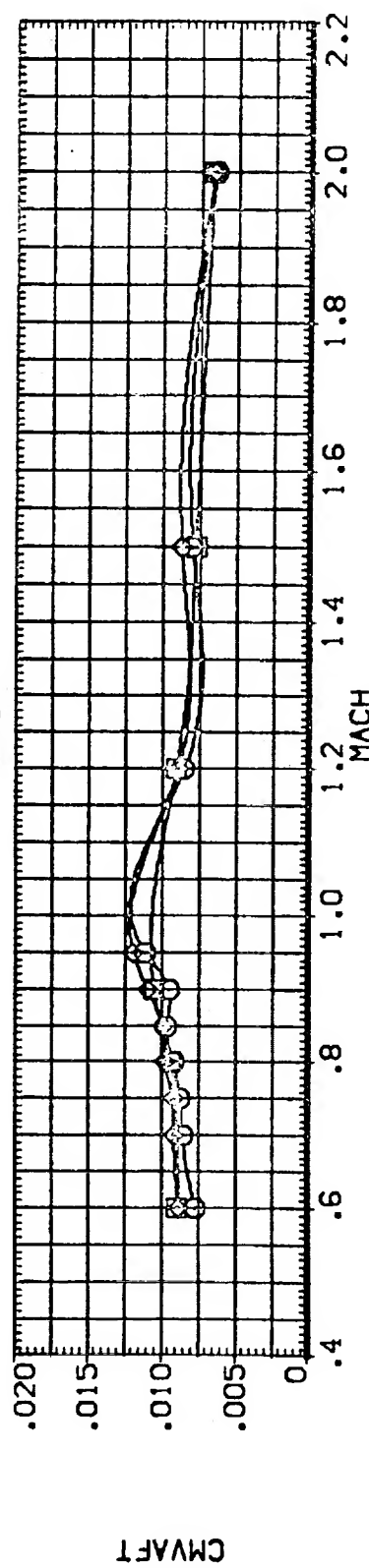
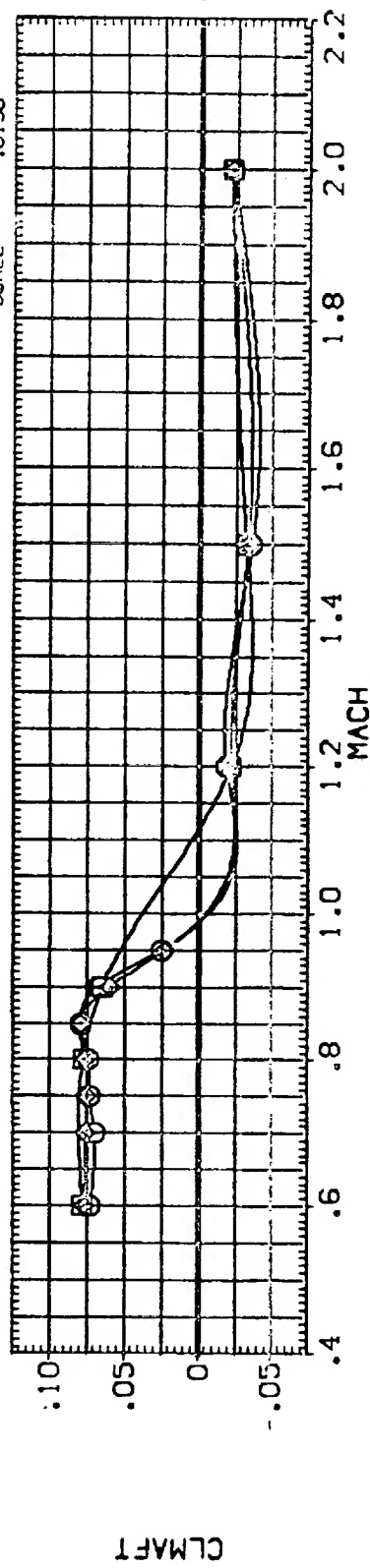


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS
(CJALPHA = 10.00)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 DASS 0A11A-(N24 R5 V8)+STRUT+DUM STING	.000	.000	-11.700	SREF 6053 SQ.FT.
(LER009)	ARC 66-709 DASS 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF 5935 FT.
(LER012)	ARC 66-709 DASS 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

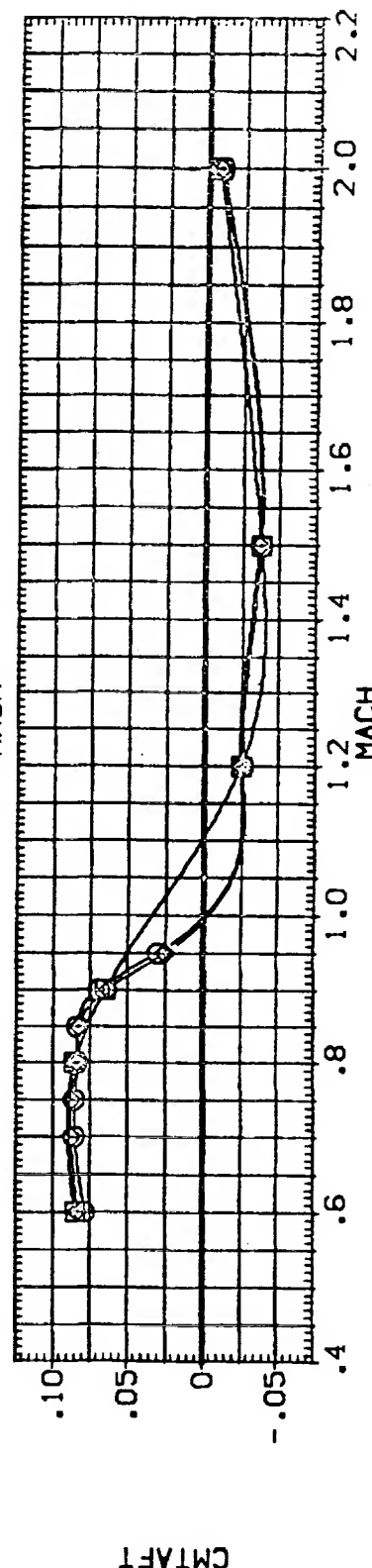
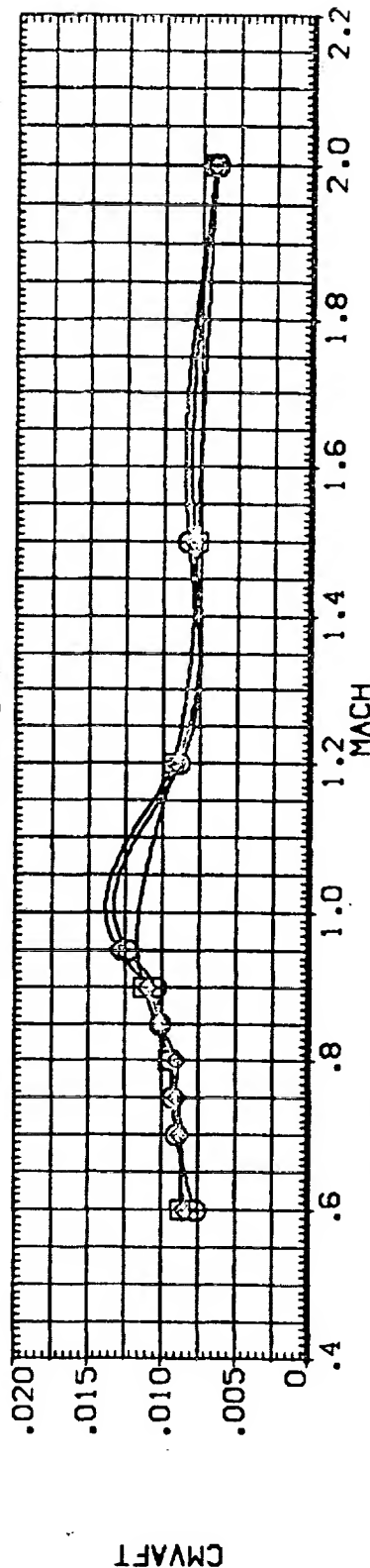
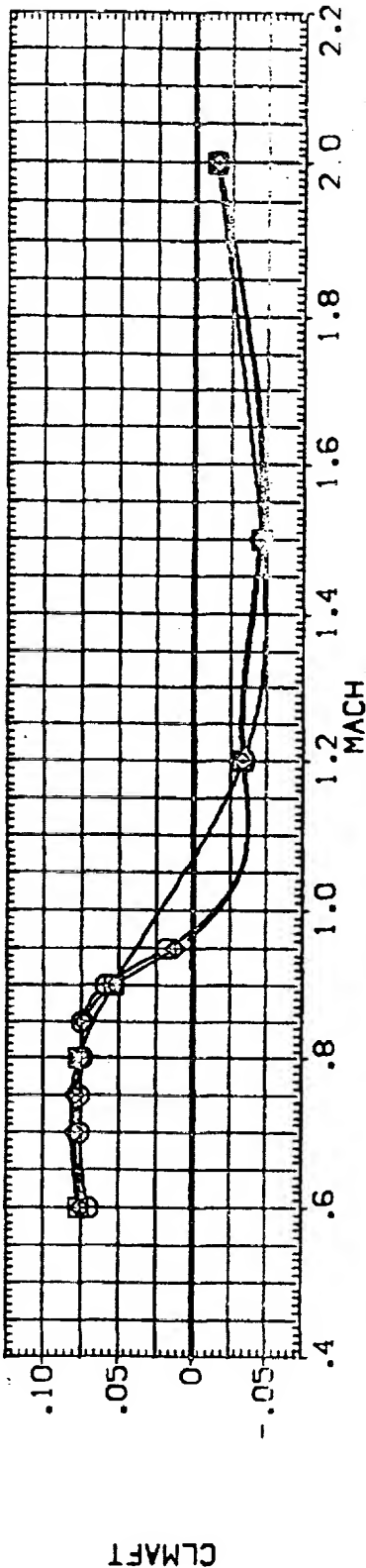


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D)ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT+DUM STNG	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

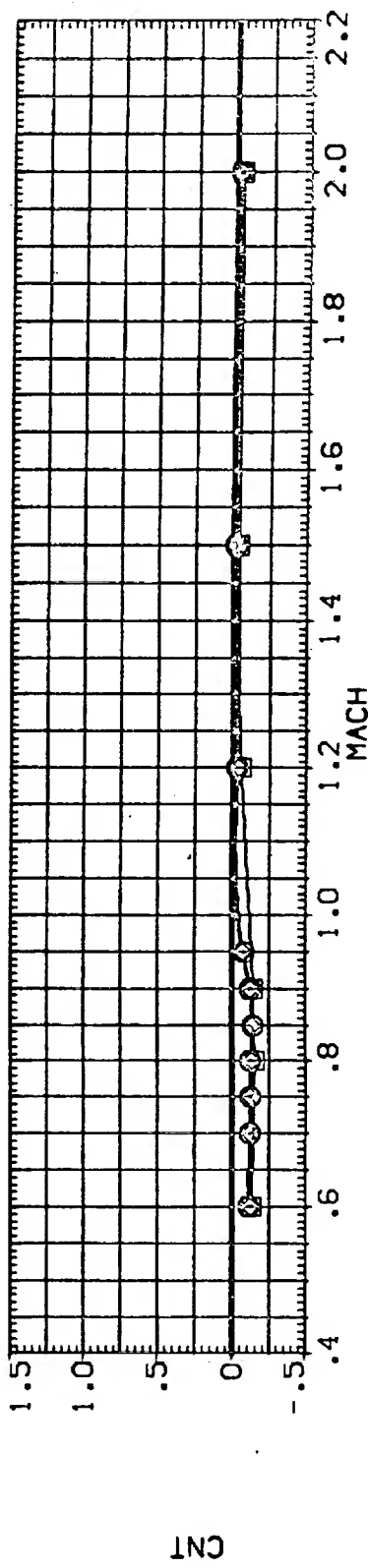
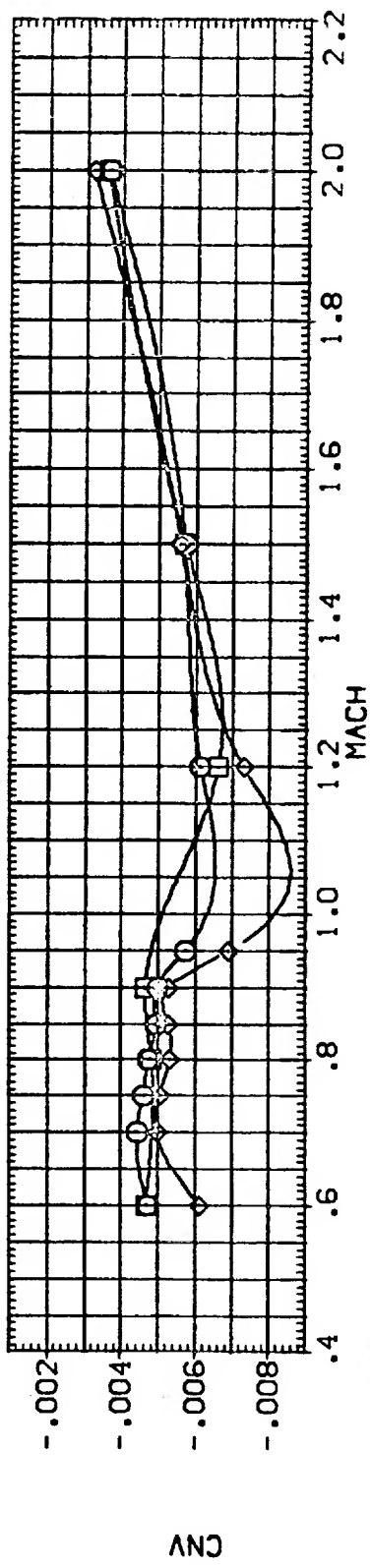
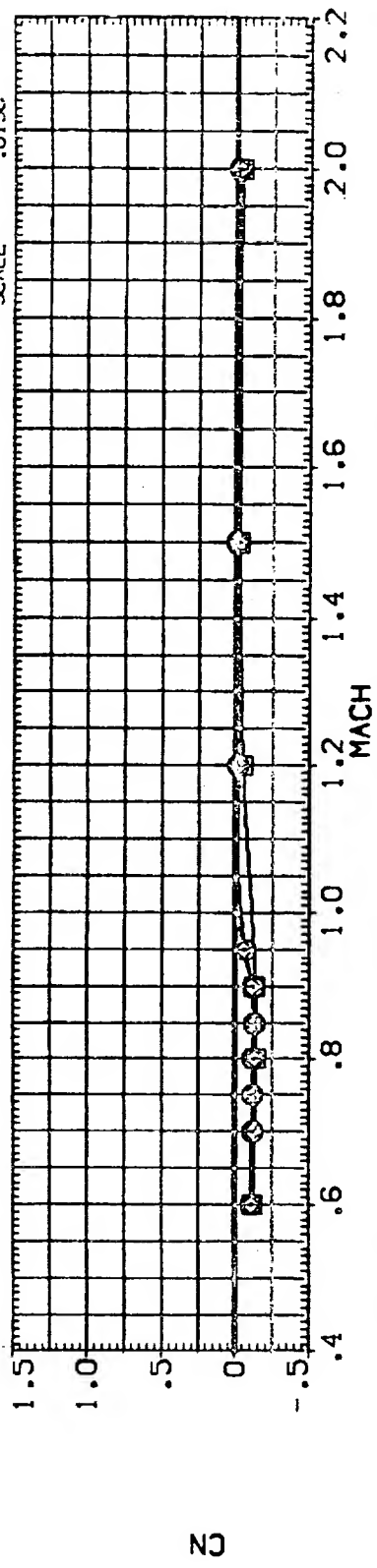


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(ALPHA) = .00

DATA SET SYMBOL	CONF	IGURATION	DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LER001)	ARC 66-709	0A59	DA11A-(N24 RS V81+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(LER009)	ARC 66-709	0A59	DA11A-(N24 RS V81+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LER012)	ARC 66-709	0A59	DA11A-(RS V81+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
							XMRP 12.6255 IN.
							YMRP .0000 IN.
							ZMRP -.3750 IN.
							SCALE .0150

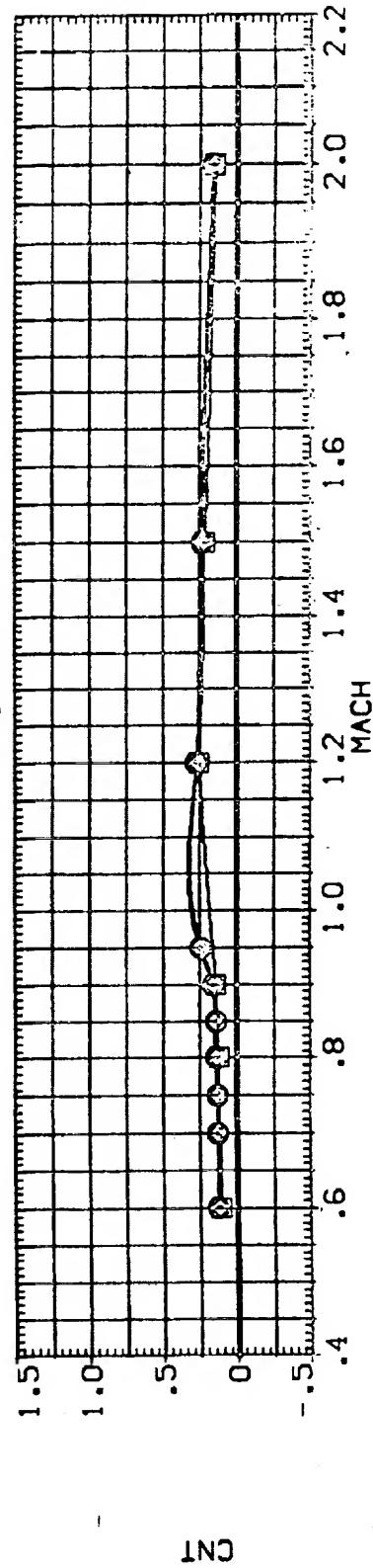
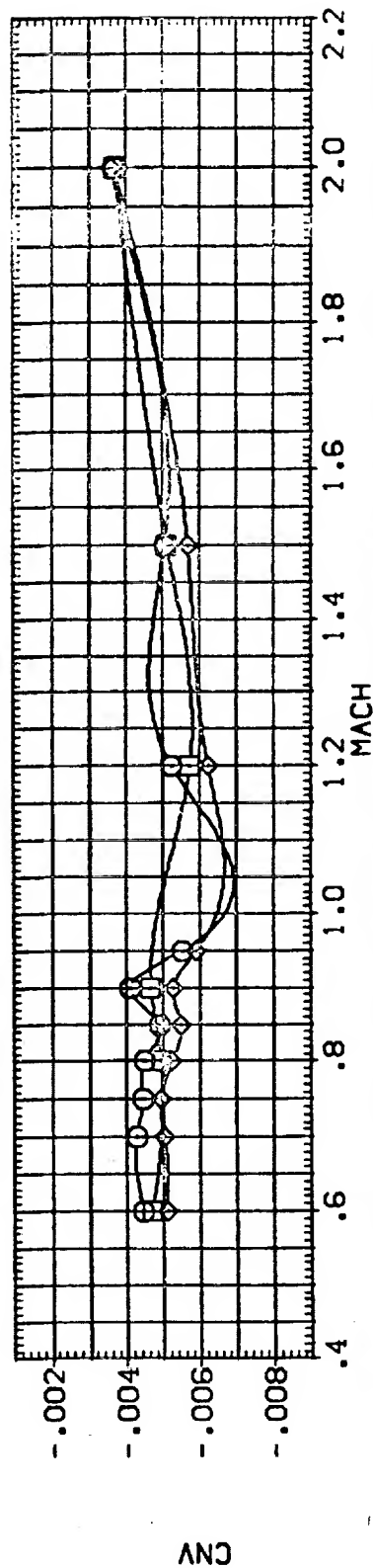
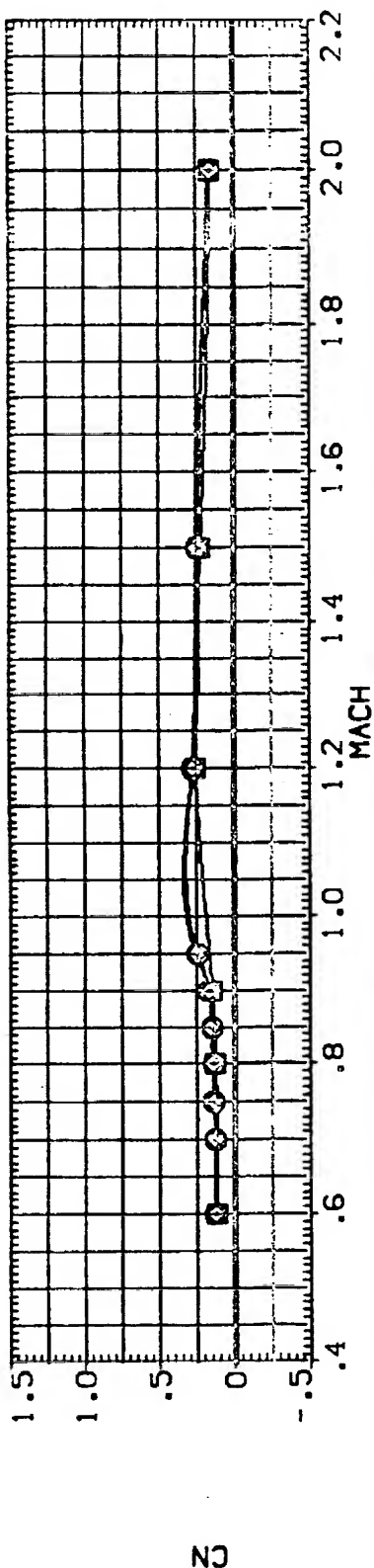


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(LERO01)	ARC 66-709 DASS DALLA-(N24 RS V81)+STRUT+DUM SING.	.000	.000	-11.700	SREF .6053 SQ.FT.
(LERO09)	ARC 66-709 DASS DALLA-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(LERO12)	ARC 66-709 DASS DALLA-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

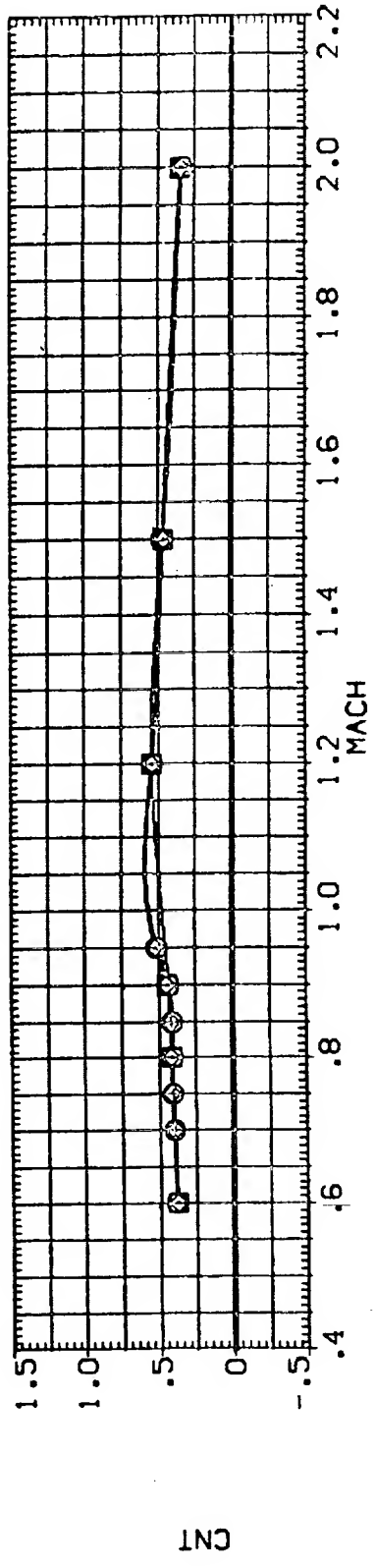
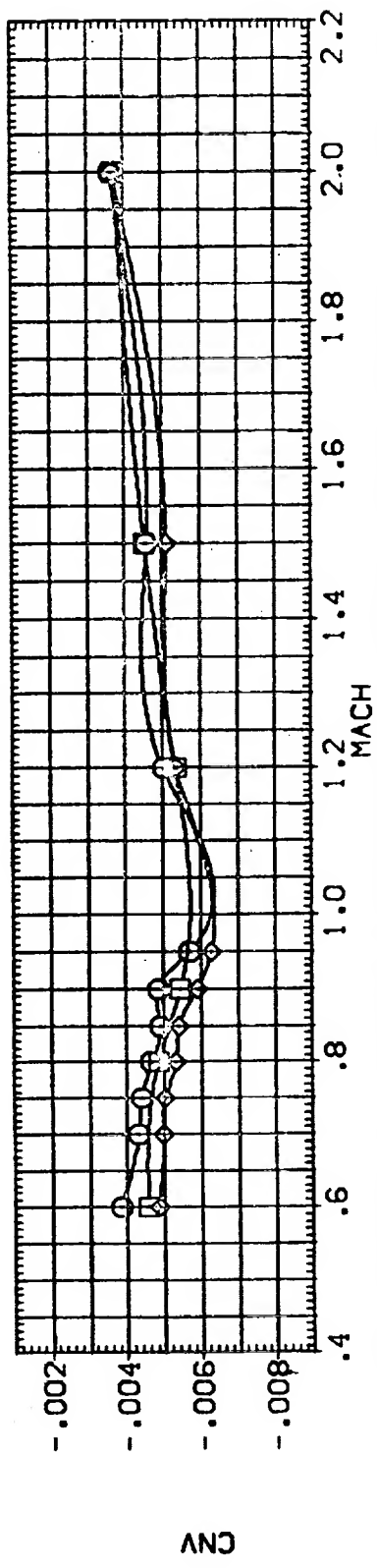
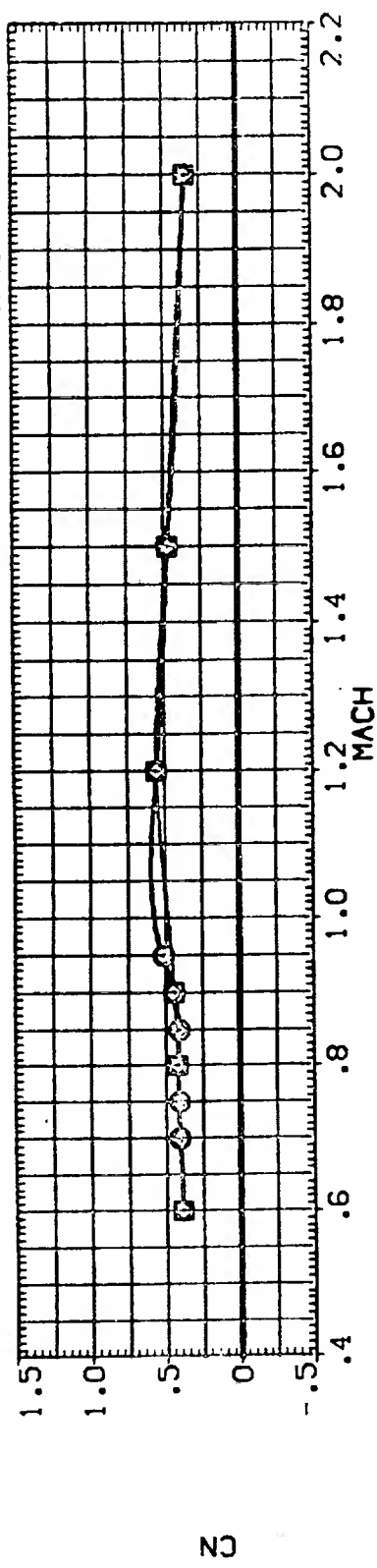


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(LER001) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING

(LER009) ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT

(LER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

.000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

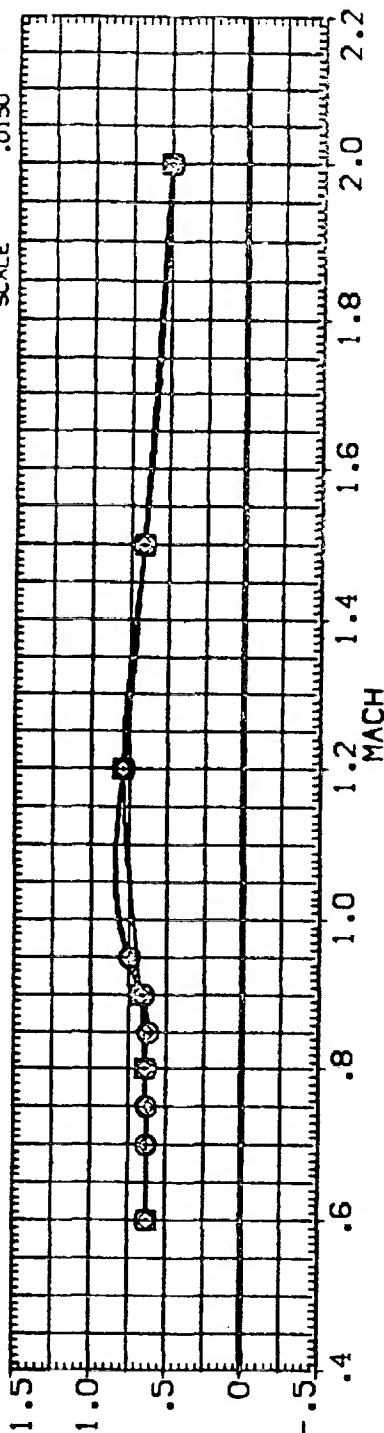
BREF 1.1710 FT.

XMRP 12.6255 IN.

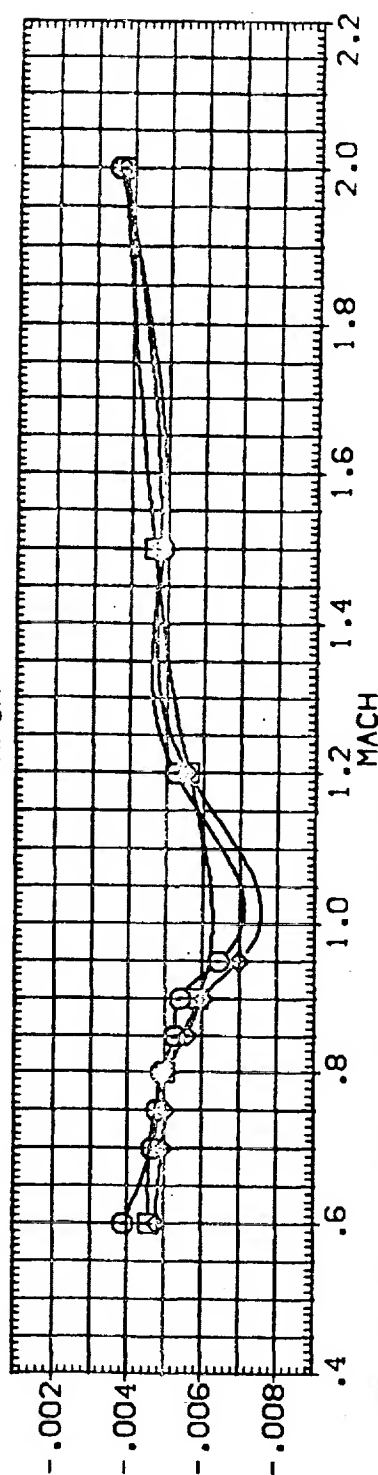
YMRP .0000 IN.

ZMRP -.3750 IN.

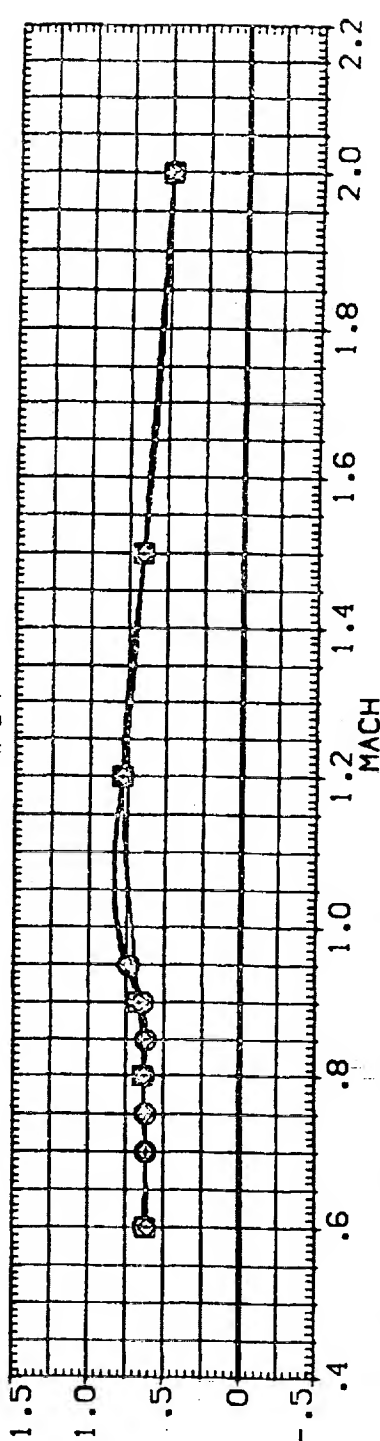
SCALE .0150



CN



CNV



CNT

FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA ELEVON BOFLAP

(MER001) ARC 66-709 DASS9 DAI1A-(N24 R5 V8)+STRUT+DUM STNG .000 .000 -11.700

(MER009) ARC 66-709 DASS9 DAI1A-(N24 R5 V8)+STRUT .000 .000 -11.700

(MER012) ARC 66-709 DASS9 DAI1A-(R5 V8)+STRUT .000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

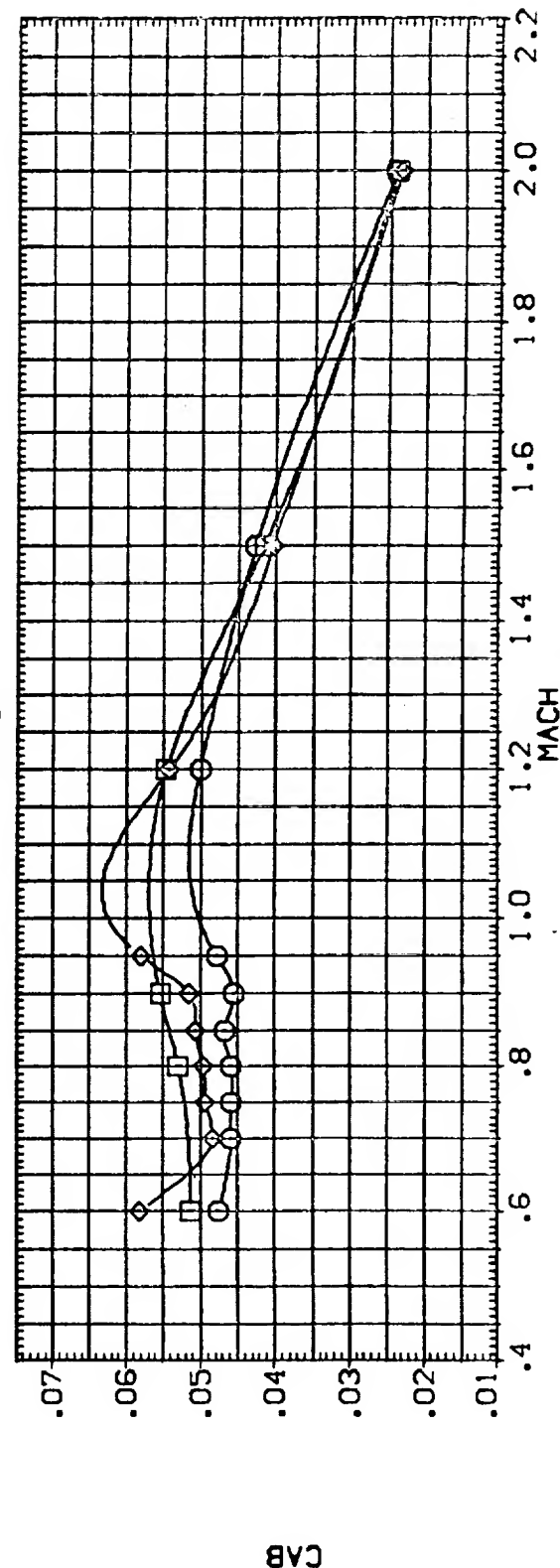
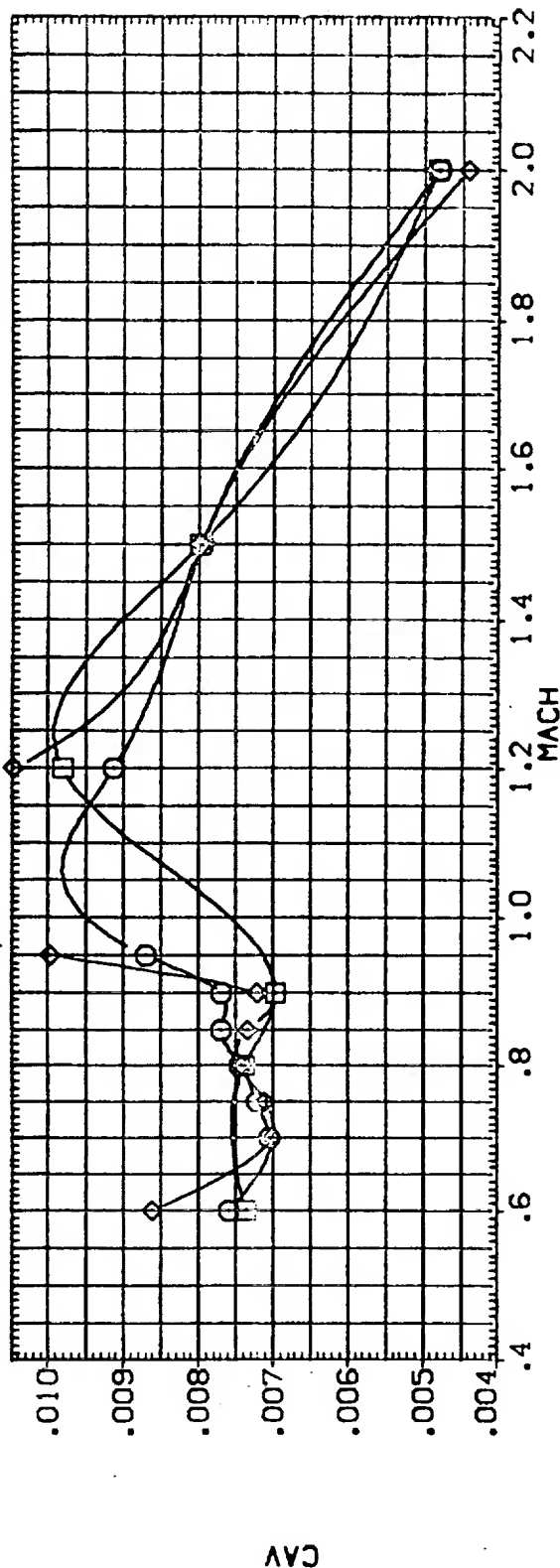


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

CALPHA = .00

DATA SET SYMBOL
(MER001)
(MER009)
(MER012)

CONFIGURATION DESCRIPTION
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT+DUM STING
ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT
ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA
.000
.000
.000

ELEVON
.000
.000
.000

BDELAP
-11.700
-11.700
-11.700

REFERENCE INFORMATION
SREF 6053 SQ.FT.
LREF 5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

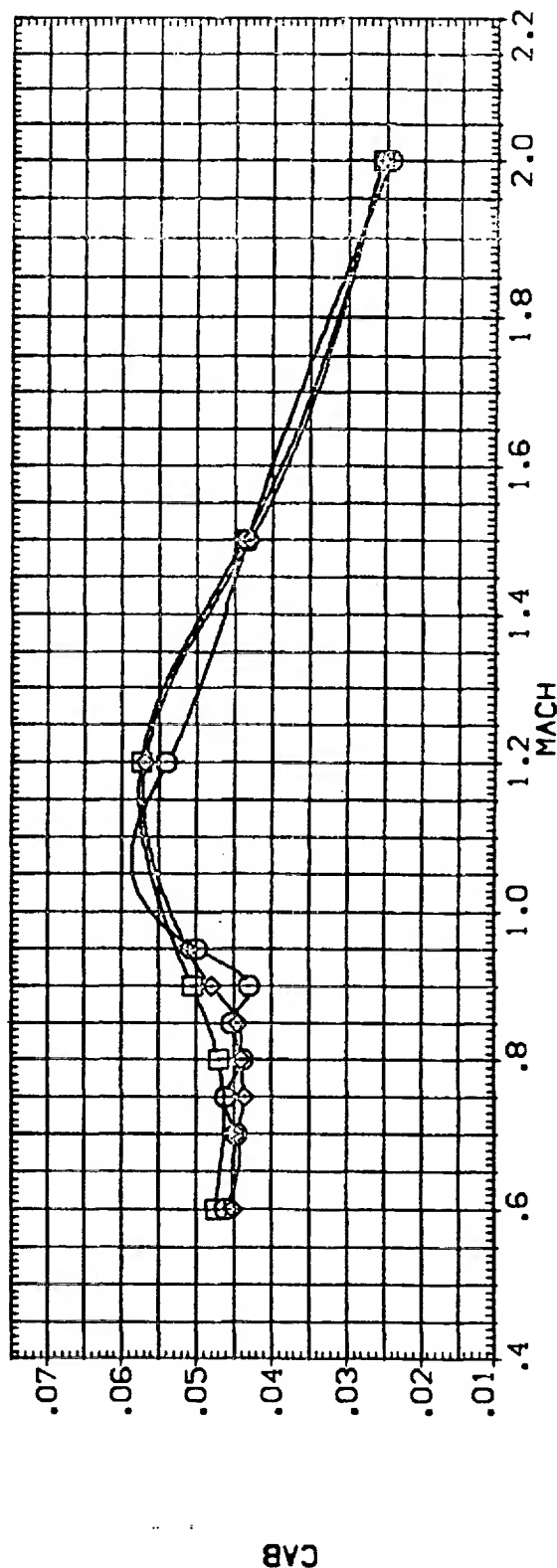
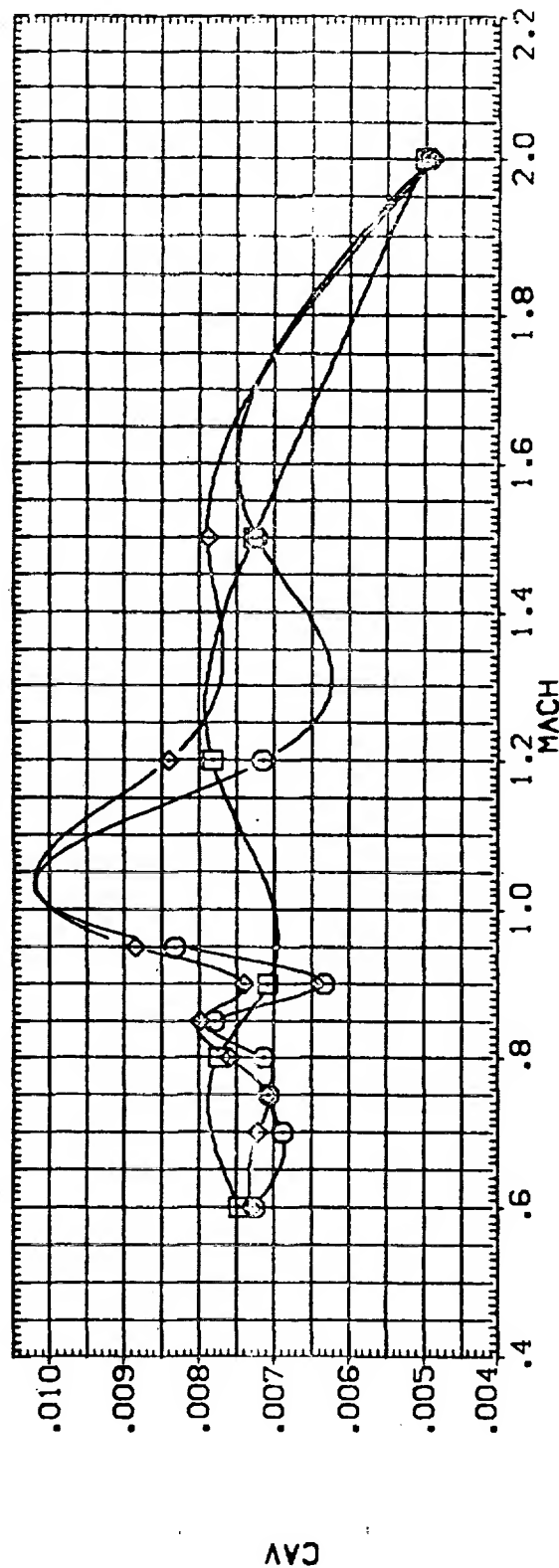





FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	SYMBOL
(MER001)	
(MER009)	
(MER012)	

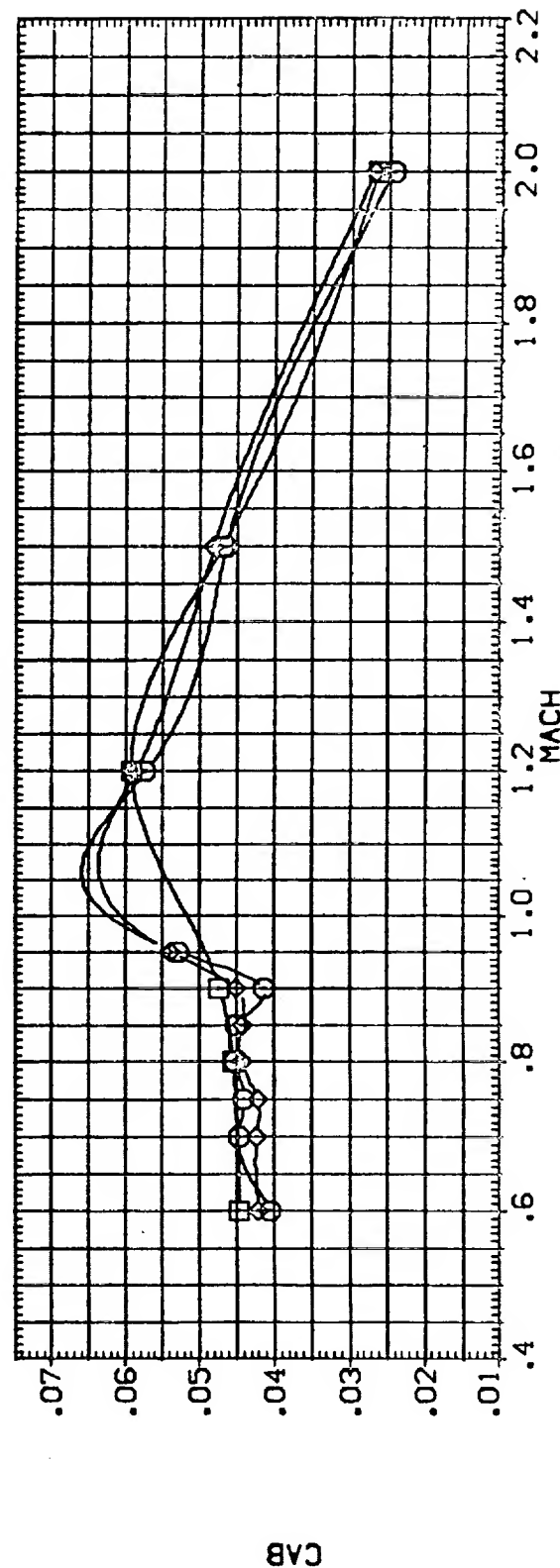
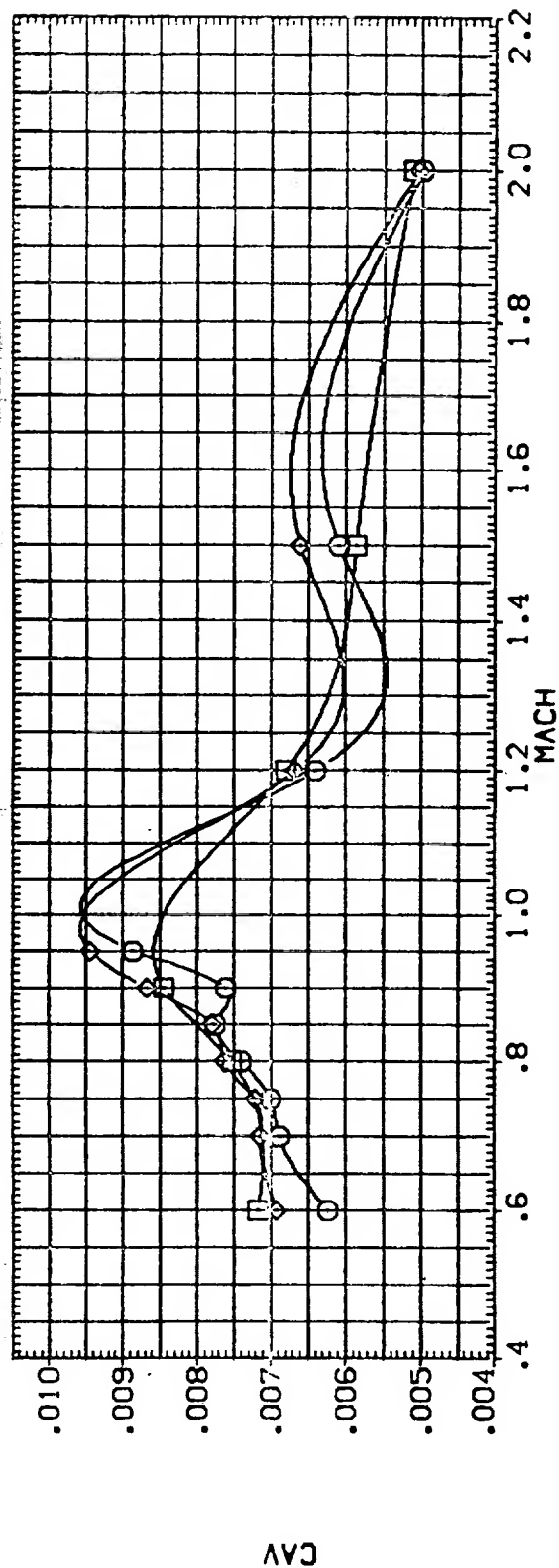


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

[[C]ALPHA = 10.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(PER001)	ARC 66-709 D459 D411A-(N24 RS V8)+STRUT+DUM STAG	.000	.000	-11.700	SREF .6053 SQ.FT.
(PER009)	ARC 66-709 D459 D411A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(PER012)	ARC 66-709 D459 D411A-(RS V8)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

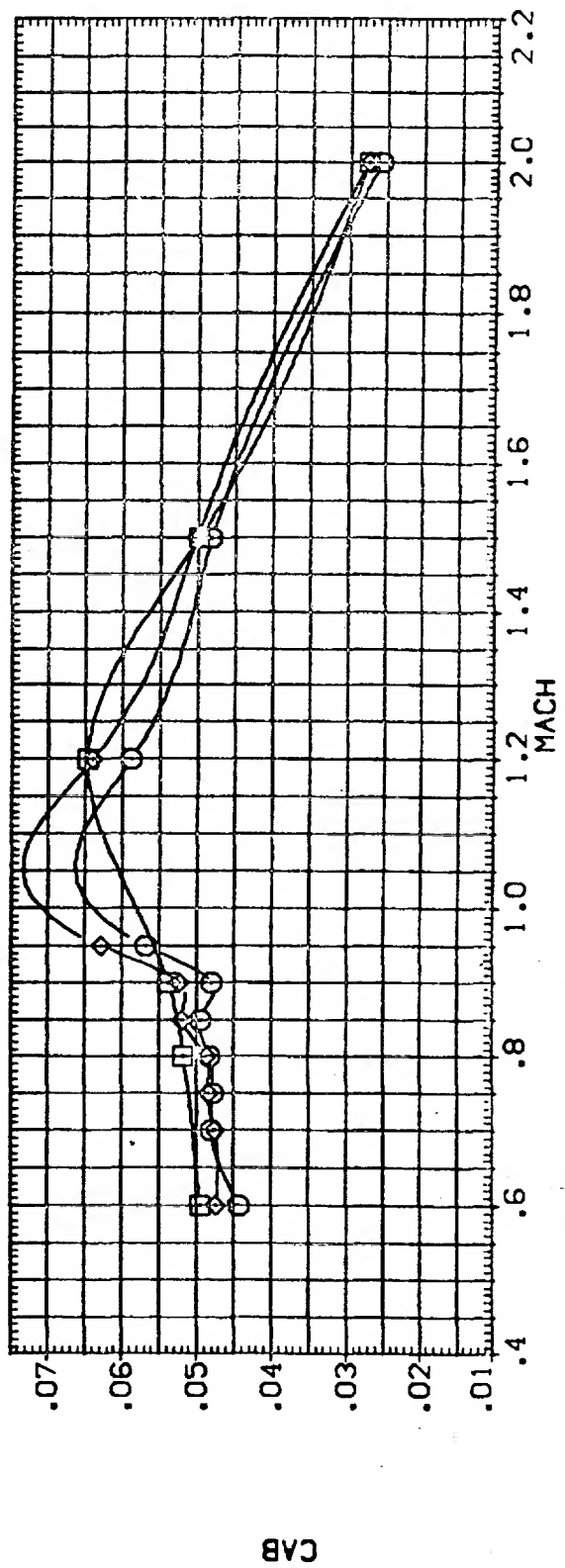
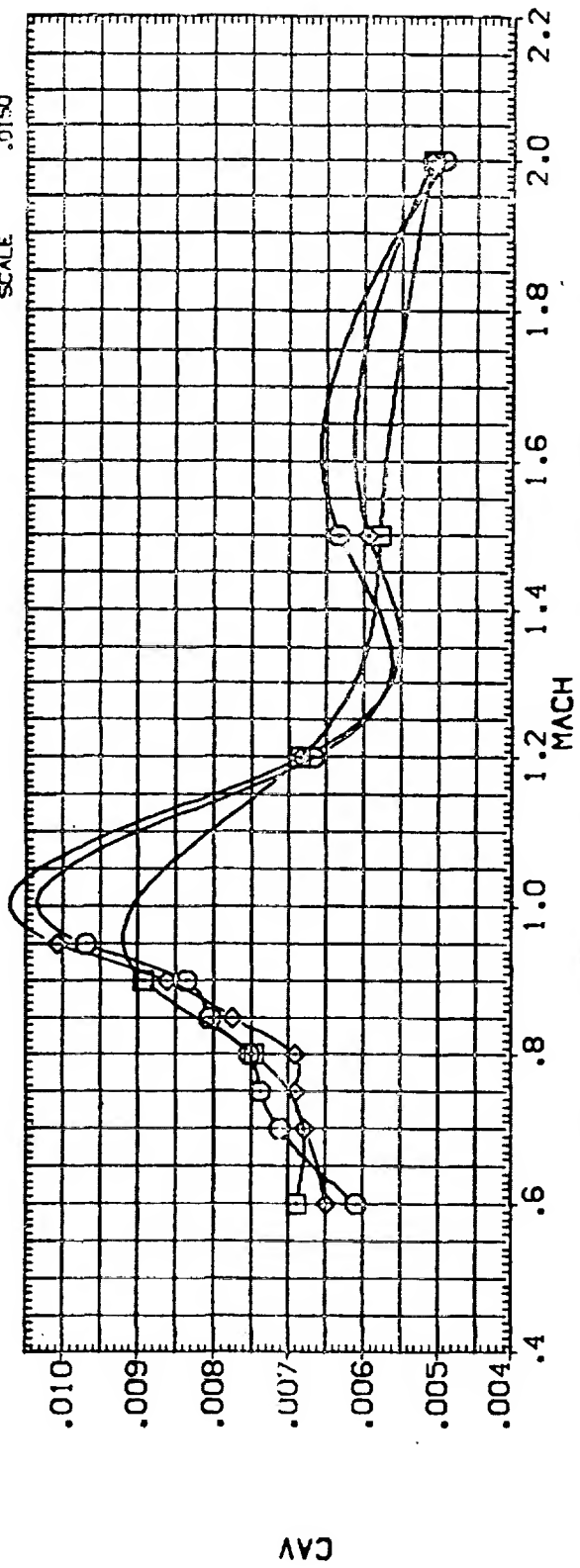


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(DJALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(MER001)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT+DUM SING	.000	.000	-11.700	SREF .6053 SQ.FT.
(MER005)	ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(MER012)	ARC 66-709 OAS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

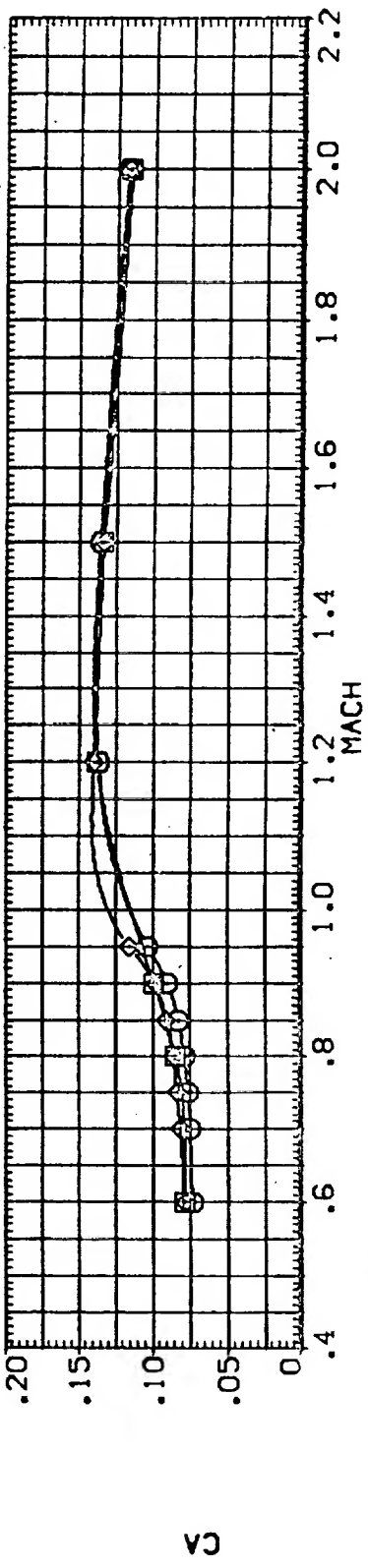
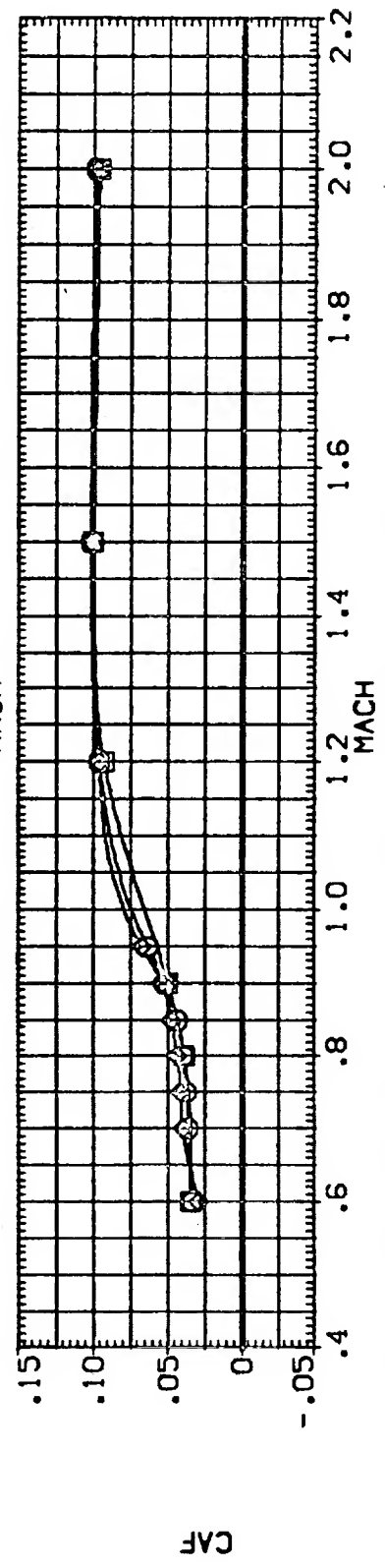
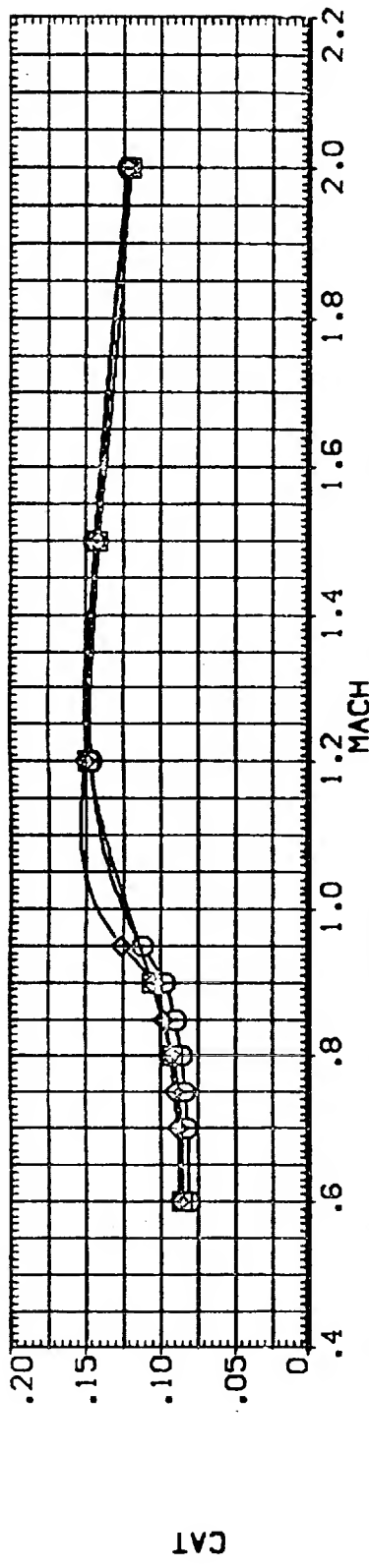


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(A) ALPHA = .00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[MER001] ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT+QUM STING

[MER008] ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT

[MER012] ARC 66-709 QAS9 CA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

.000 .000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0003 IN.

ZMRP -.3750 IN.

SCALE .0150

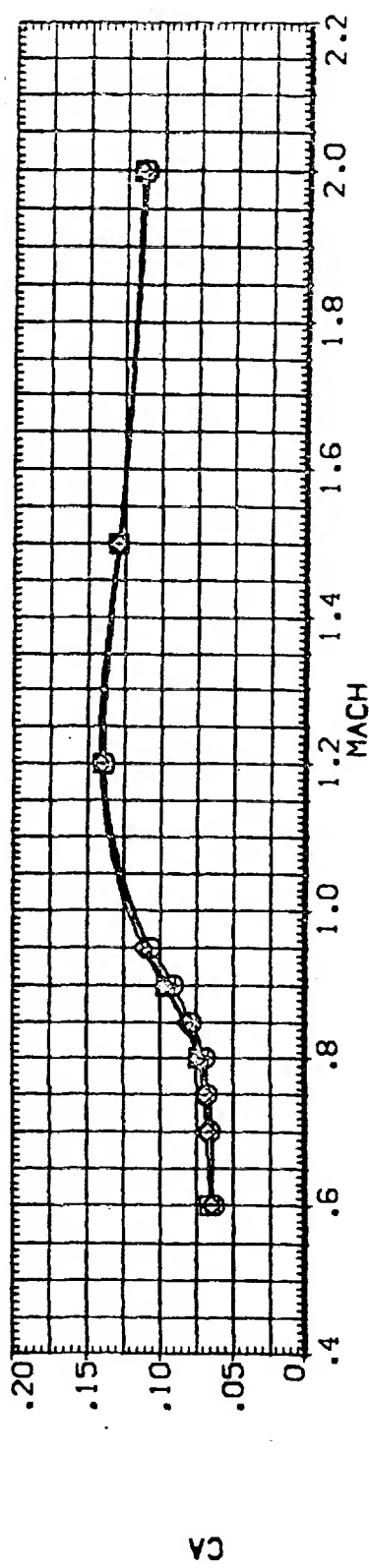
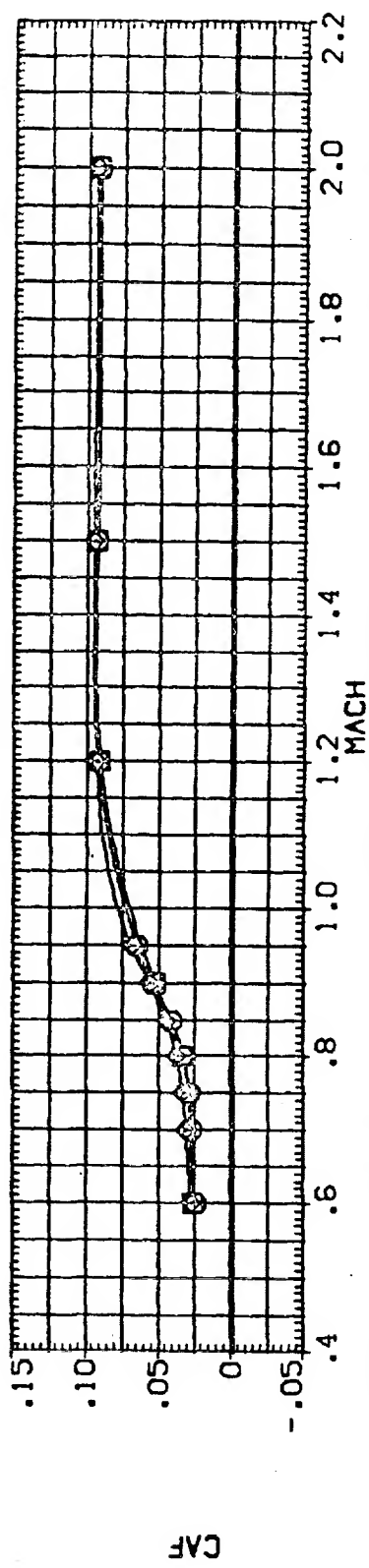
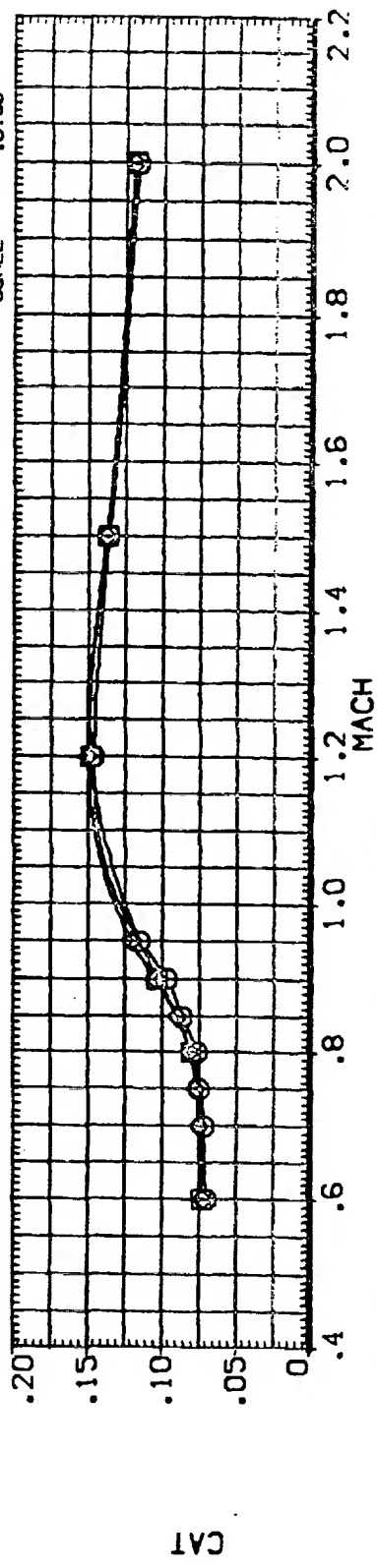


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(MER001)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT+DUM STING	.000	.000	-11.700	SREF .6053 50.FT.
(MER009)	ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(MER012)	ARC 66-709 DASS DA11A-(RS V81)+STRUT	.000	.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

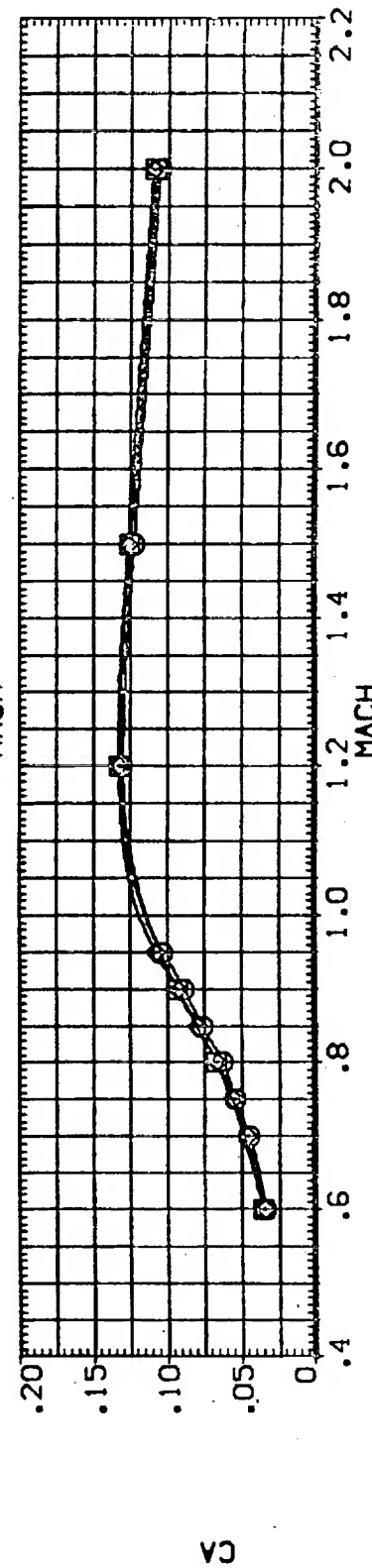
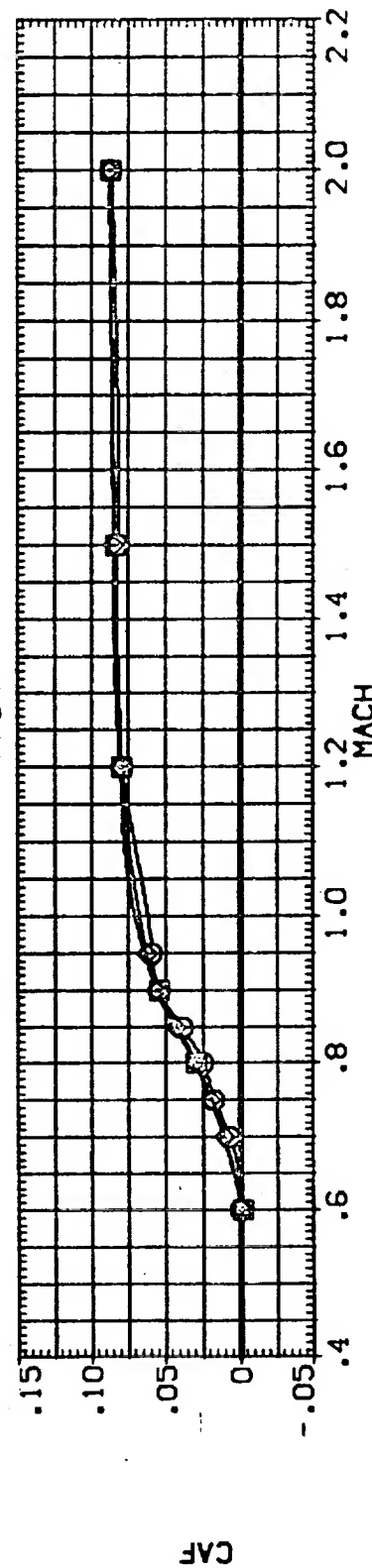
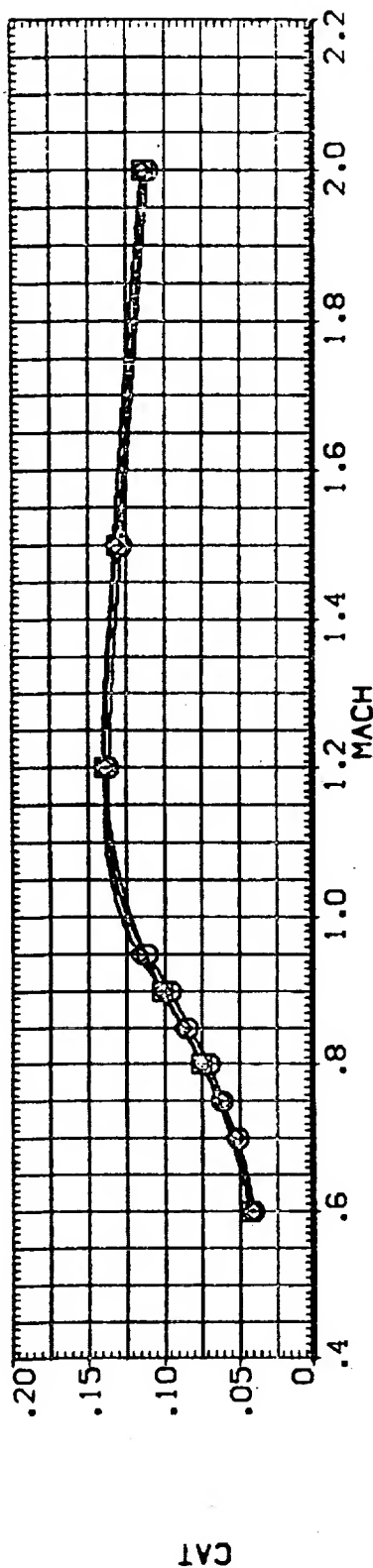


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(C)ALPHA = 10.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (MERO01) ARC 66-709 0A59 0A11A-(N24 RS VB)+STRUT+DUM STNG
 (MERO09) ARC 66-709 0A59 0A11A-(N24 RS VB)+STRUT
 (MERO12) ARC 66-709 0A59 0A11A-(RS VB)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

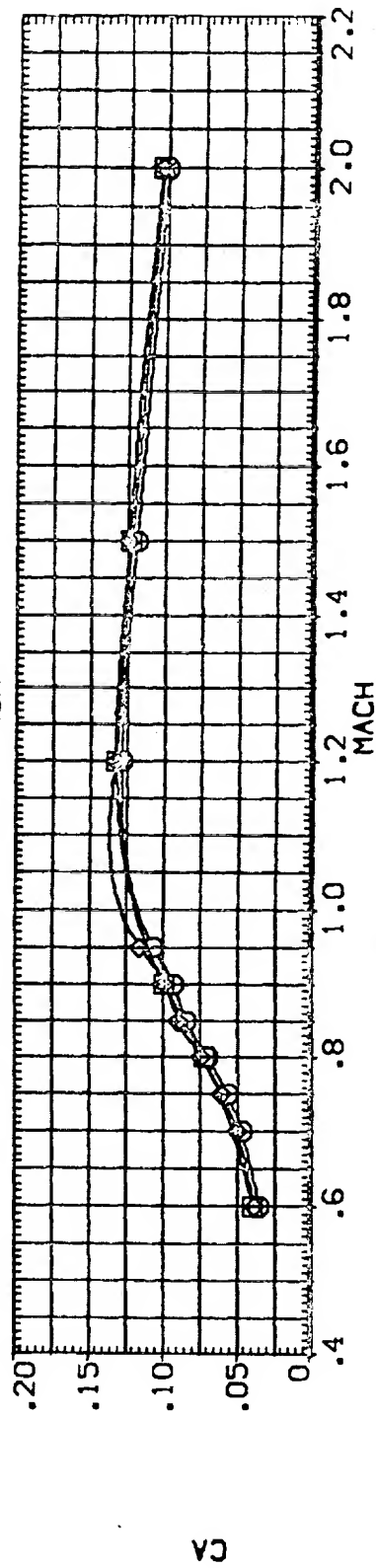
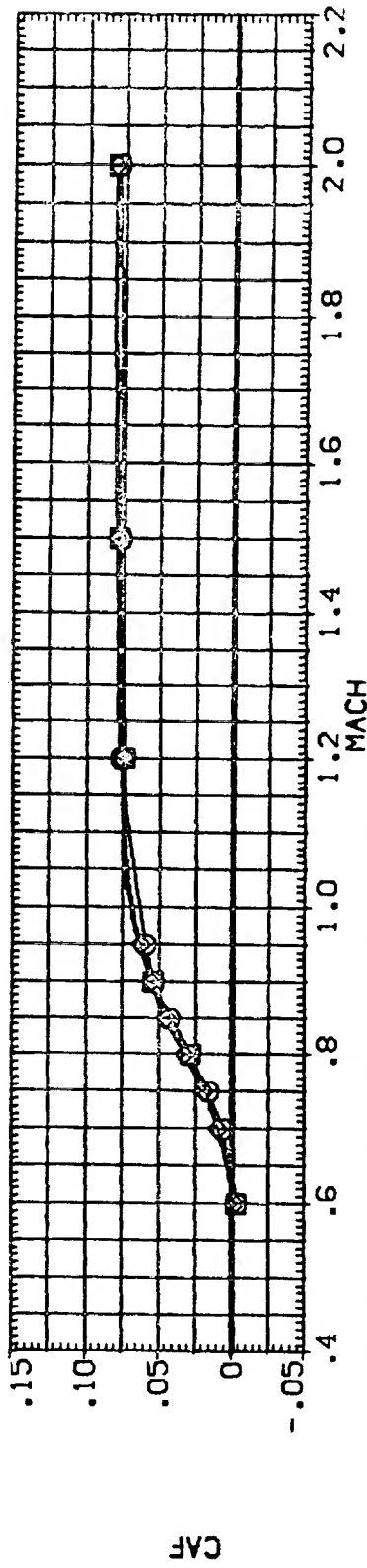
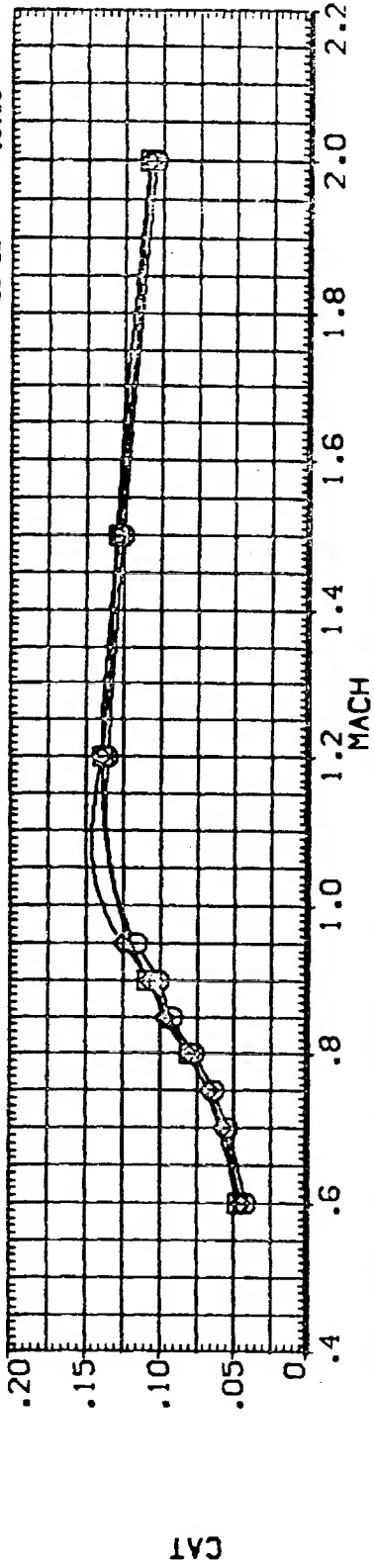


FIG. 6 DATA COMPONENTS DURING TARE PITCH RUNS

(D) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .5053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

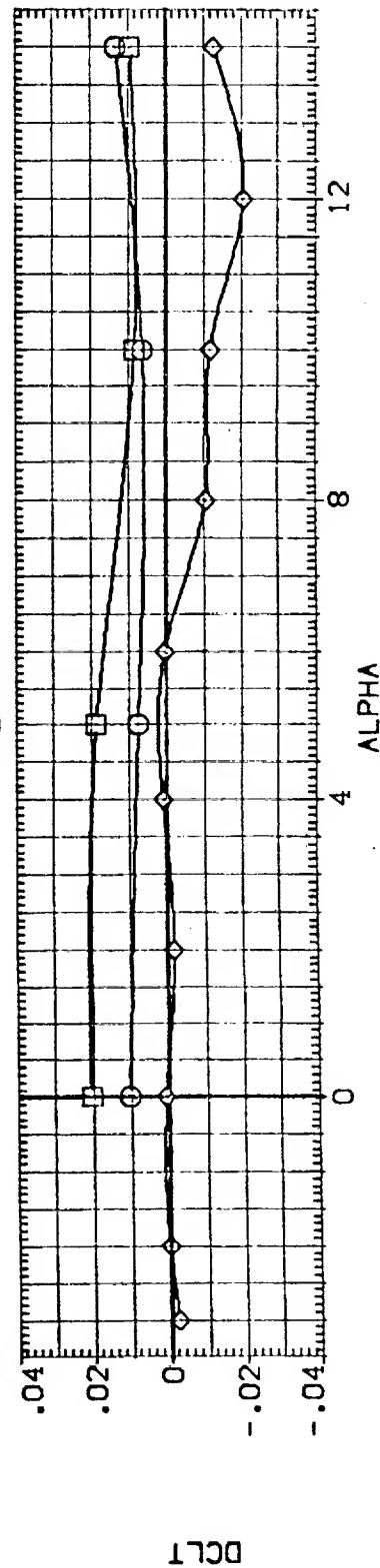
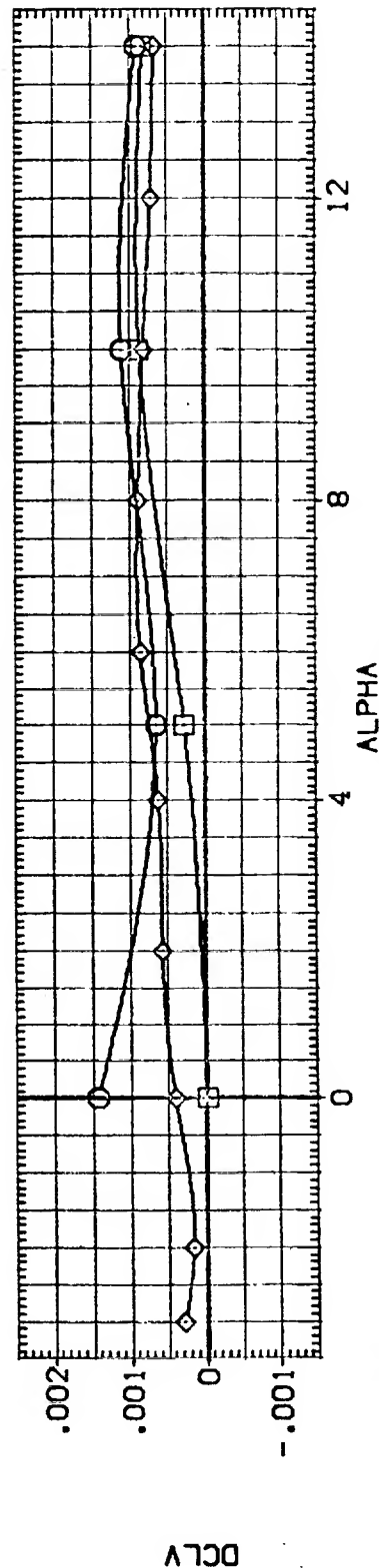
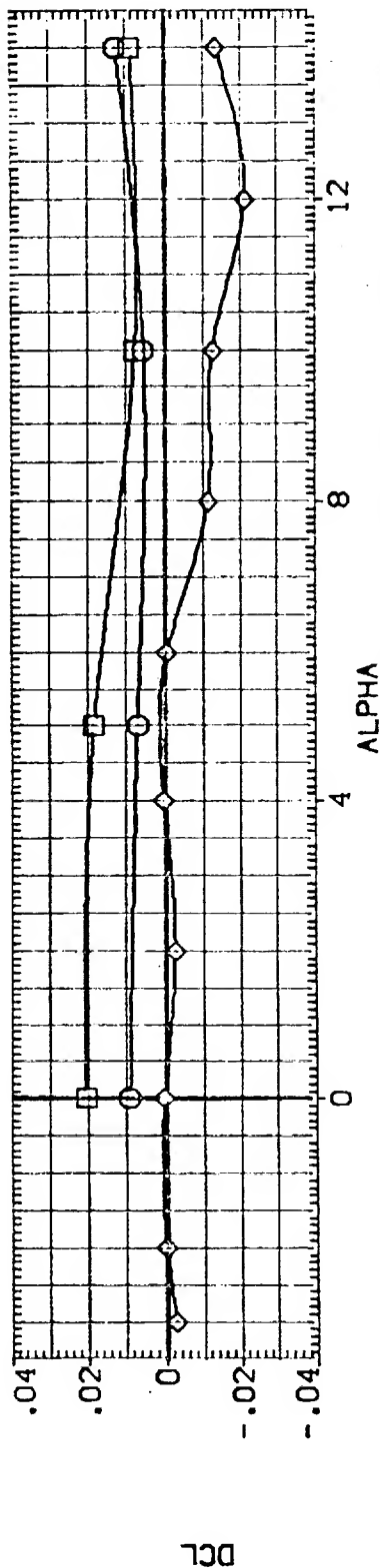


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 (UER009) DATA NOT AVAILABLE
 (UER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF 6.33 50.FT.
 LREF 6.35 FT.
 BREF 1.110 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -3.750 IN.
 SCALE .0150

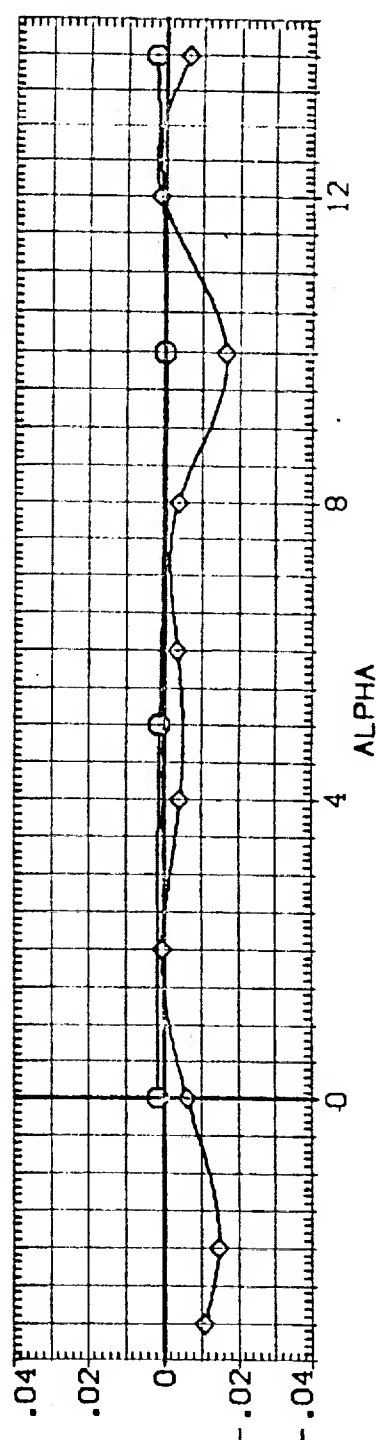
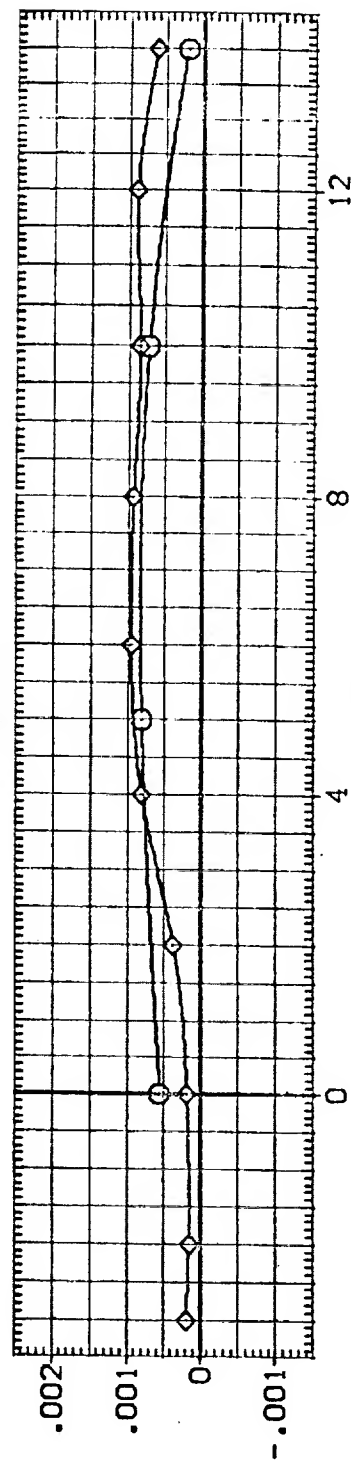
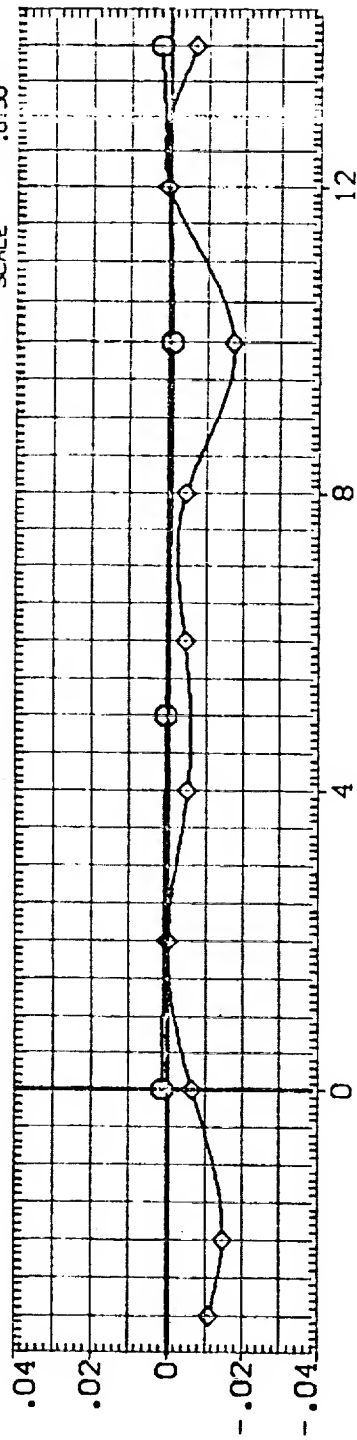


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER012) ARC 66-709 BASS DATA-(RS V8)+STRUT
 (UER009) DATA NOT AVAILABLE
 (UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .5053 50. FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6755 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

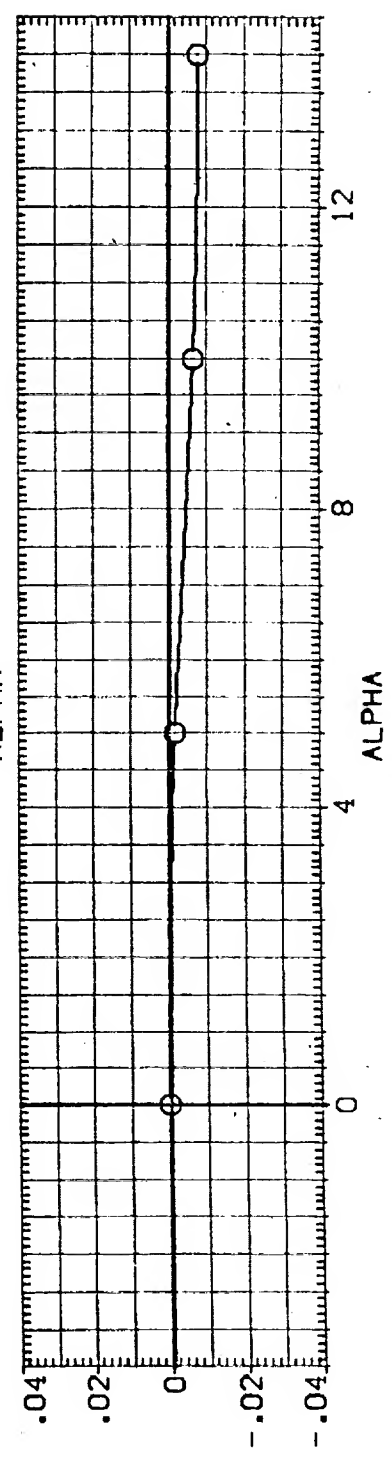
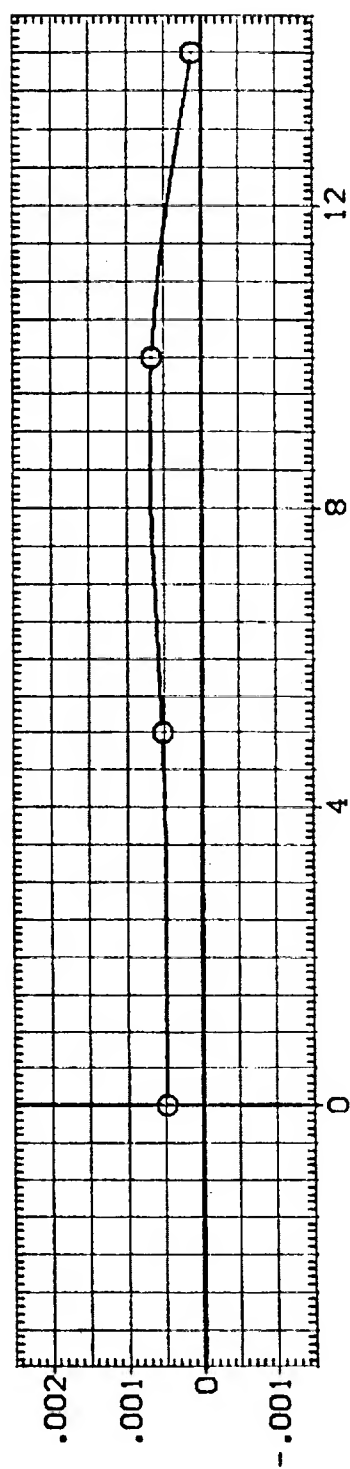
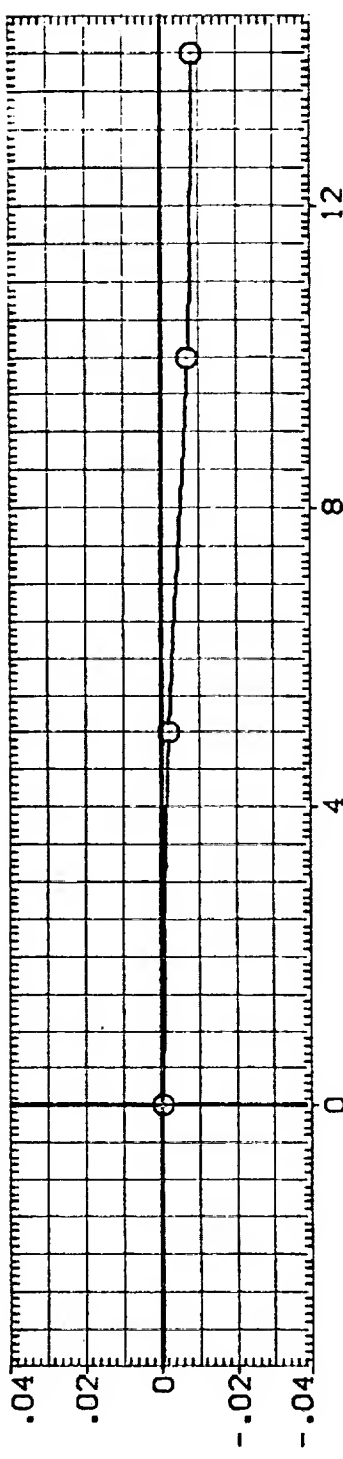


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

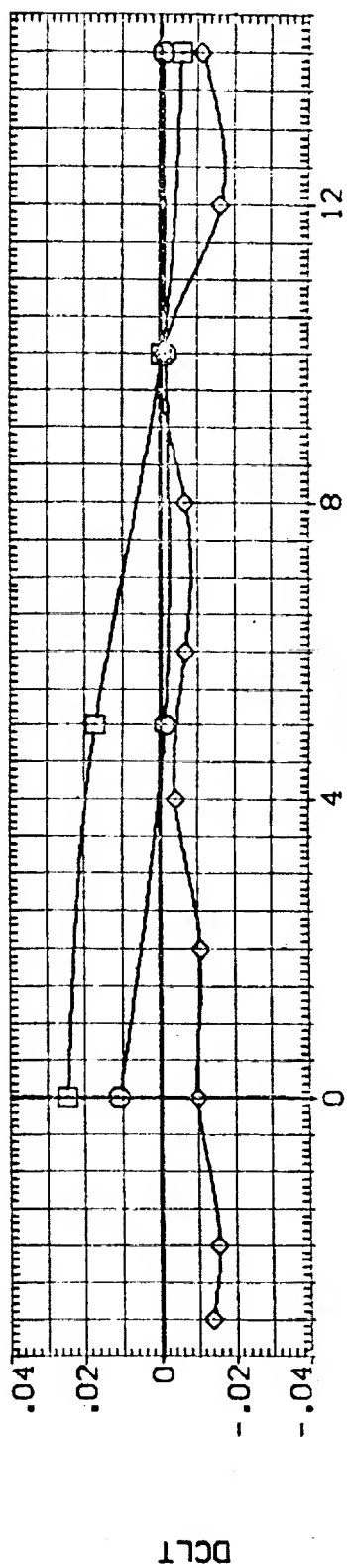
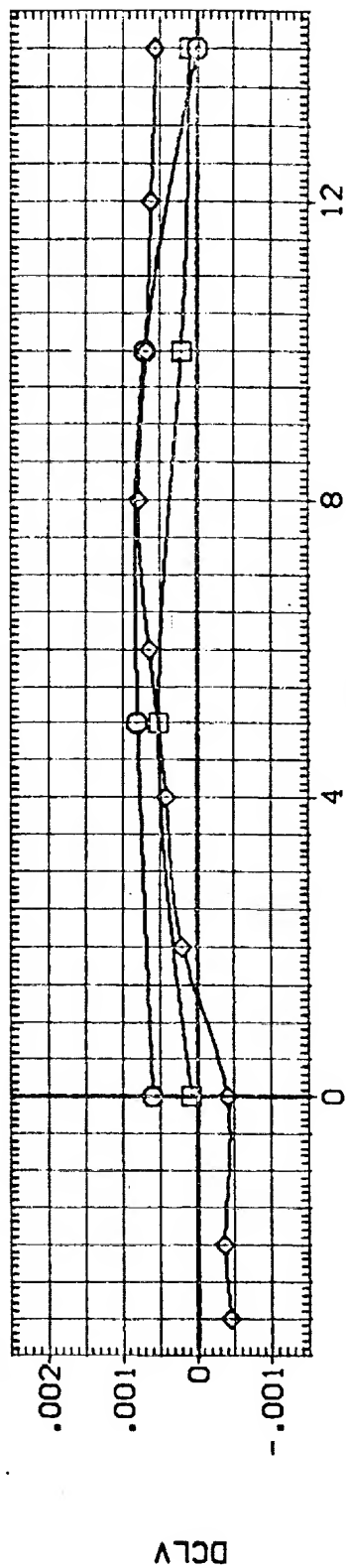
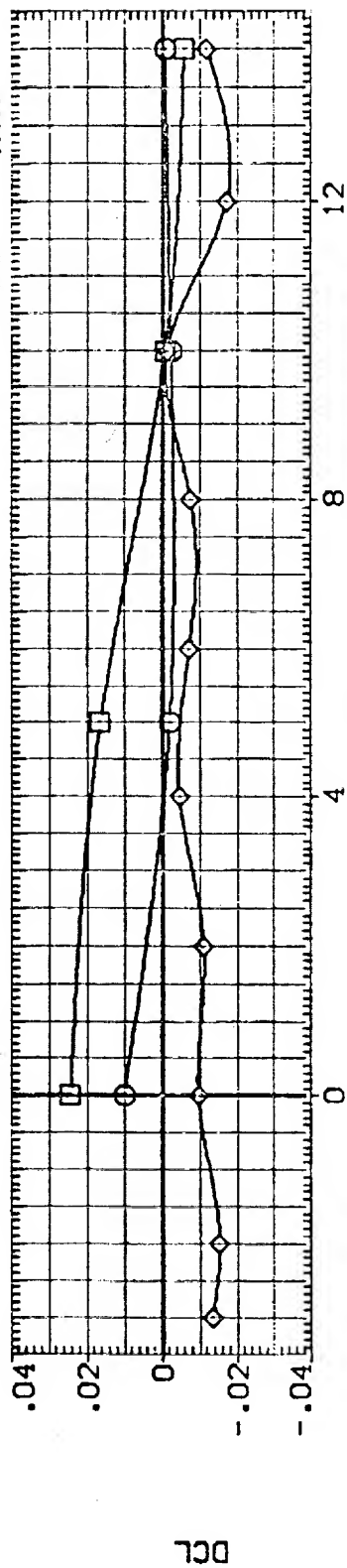


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(CD)MACH = .80

(UERO12)	ARC 66-709 D459 D411A-(R5 V8)+STRUT
(UERO09)	DATA NOT AVAILABLE
(UERO13)	DATA NOT AVAILABLE

BETA	ELEVON	BOFLAP
.000	.000	-11.700
.000	.000	-11.700
.000	15.000	-11.700

SREF	.6053	50.FT.
LREF	.5935	FT.
BREF	1.1710	FT.
XMRP	12.6255	IN.
YMRP	.0000	IN.
ZMRP	-.3750	IN.
SCALE	.0150	

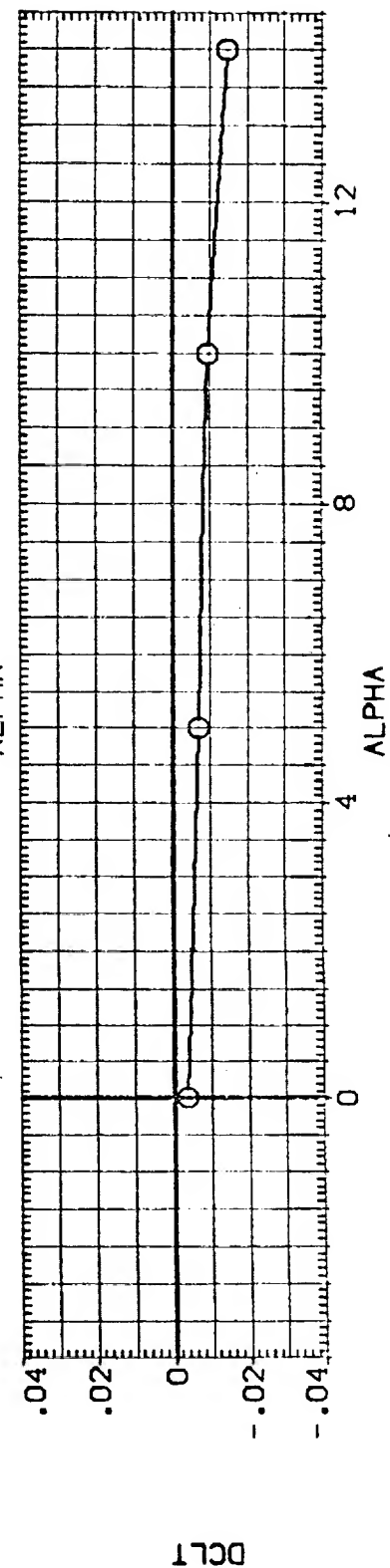
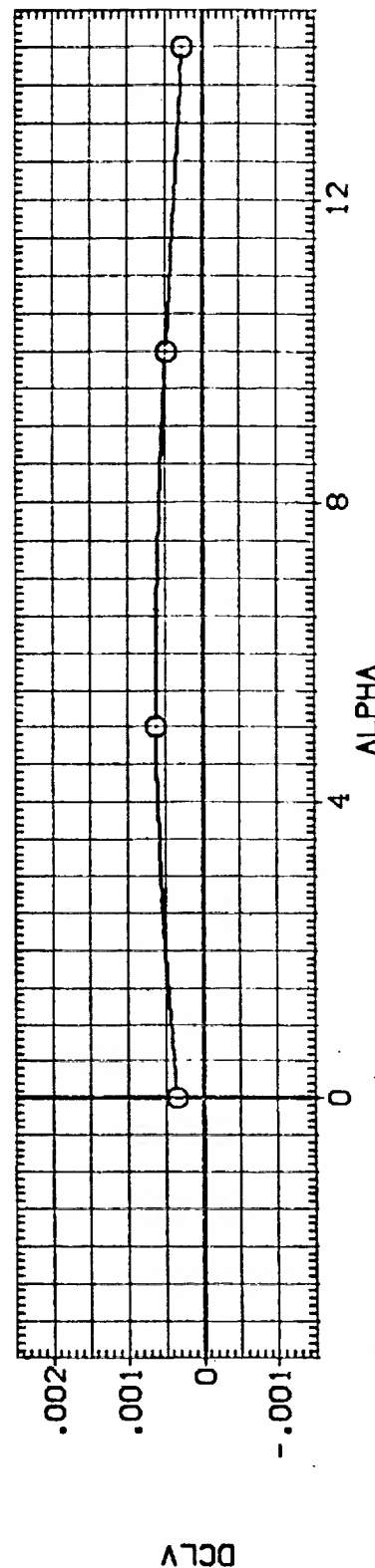
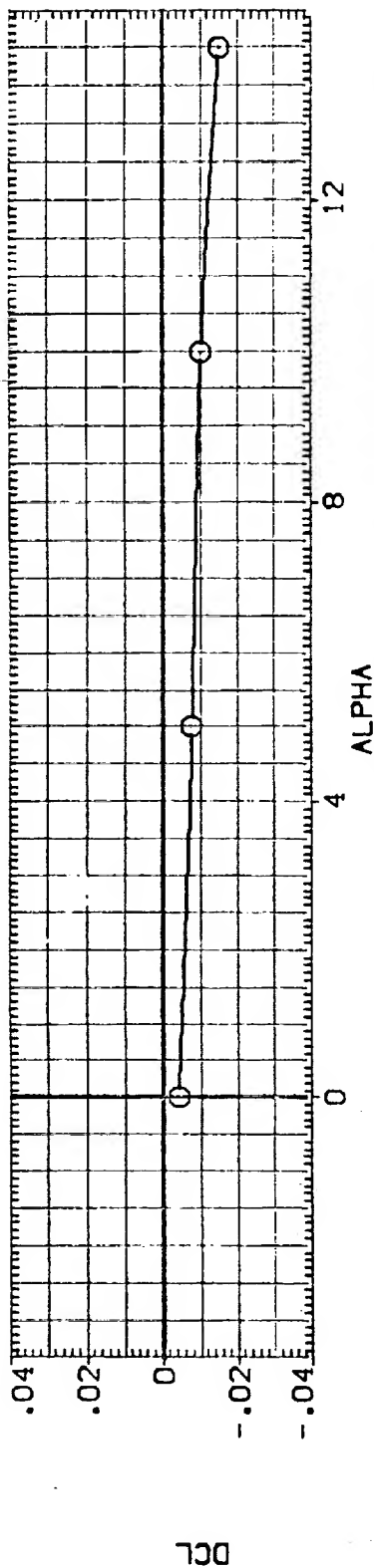


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CEJMACH = .85

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UERO12)  ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT
 (UERO09)  ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT
 (UERO13)  ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

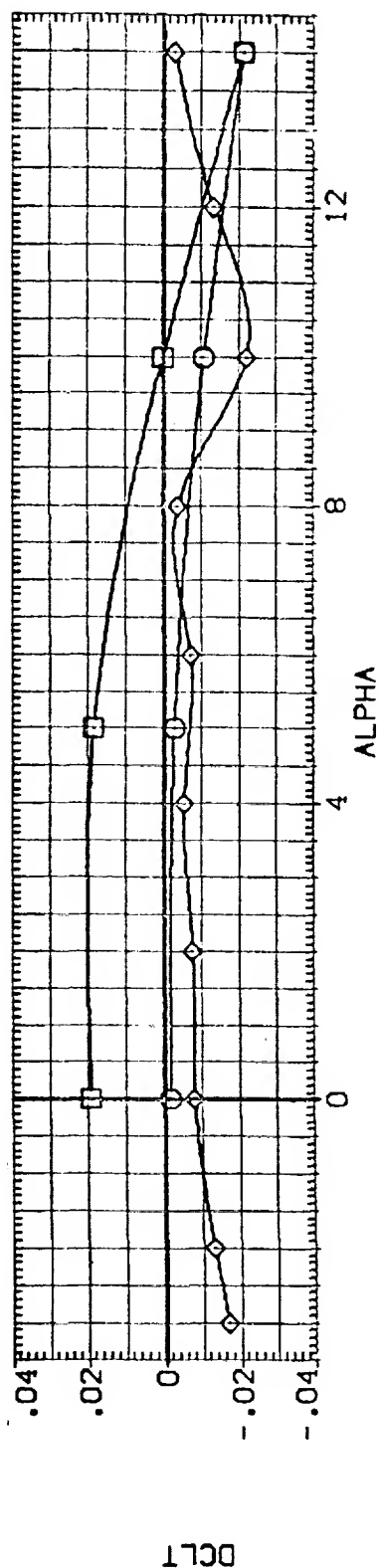
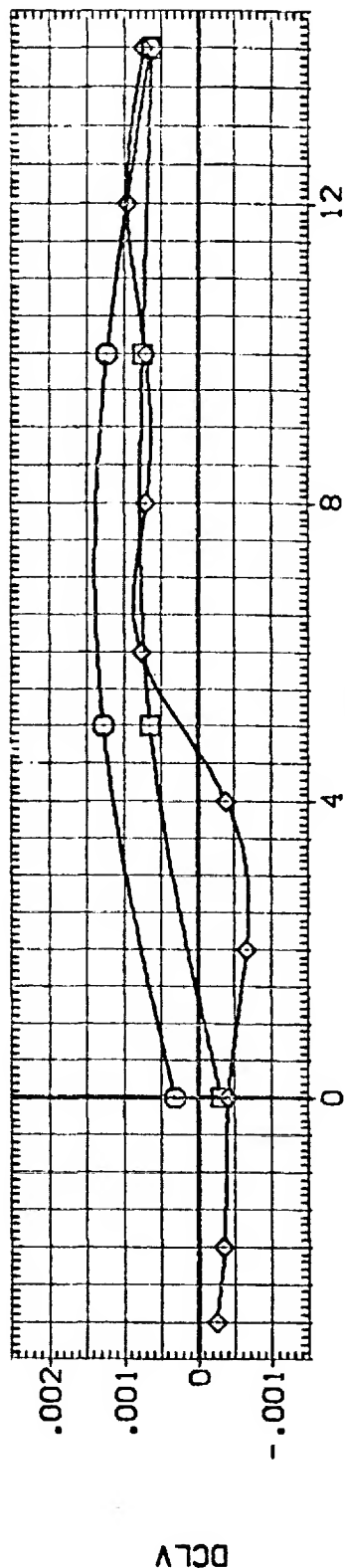
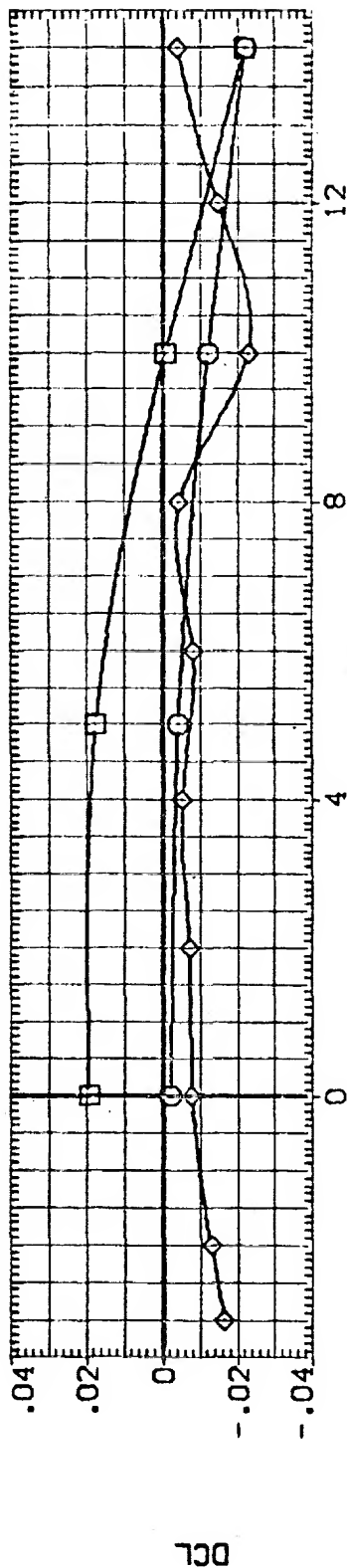


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL: (UERO12) (UERO09) (UERO13)

CONFIGURATION DESCRIPTION: ARC 66-709 DALLA-(RS V8)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 -11.700 -11.700

REFERENCE INFORMATION:

	50.FT.	FT.	IN.
SREF	.6053		
LREF	.5935		
BREF	1.1710		
XMRP	12.6255		
YMRP	.0000		
ZMRP	-.3750		
SCALE	.0150		

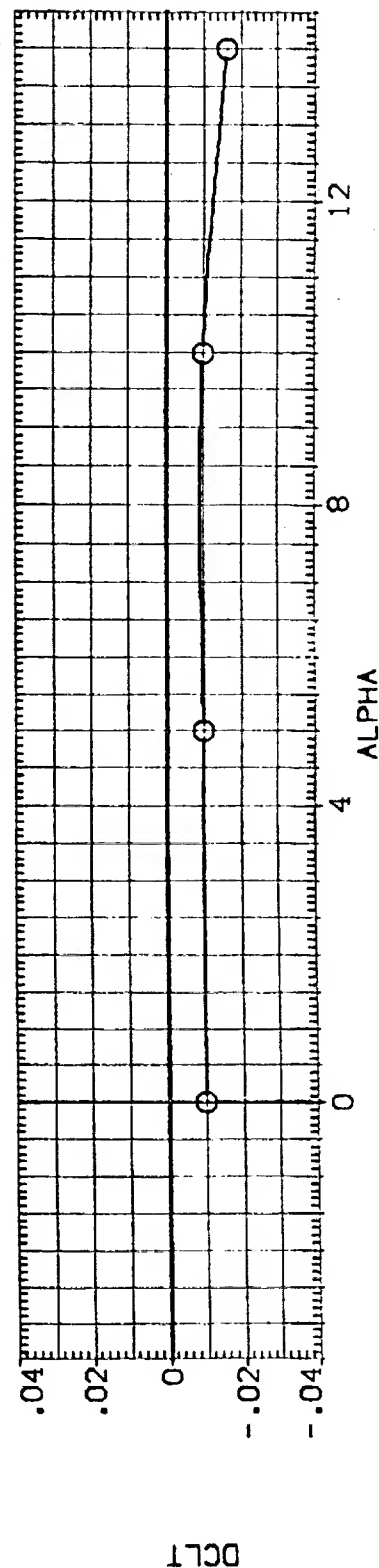
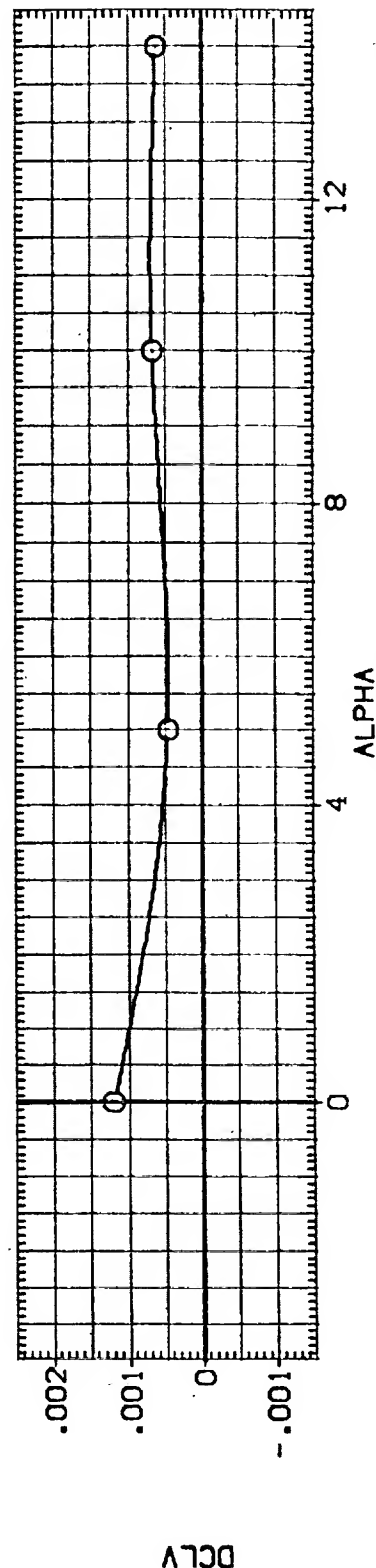
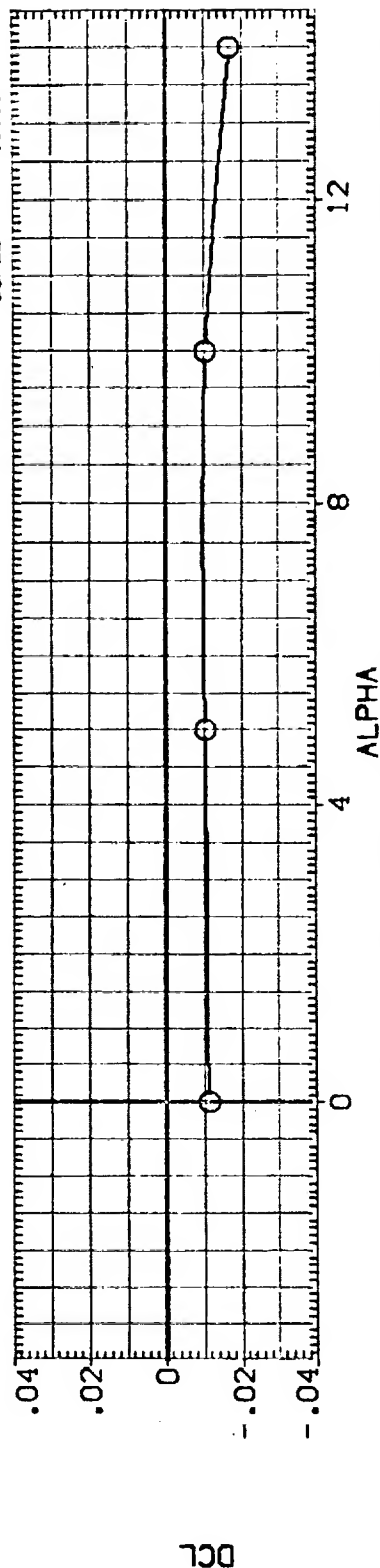


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 QAS9 CA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

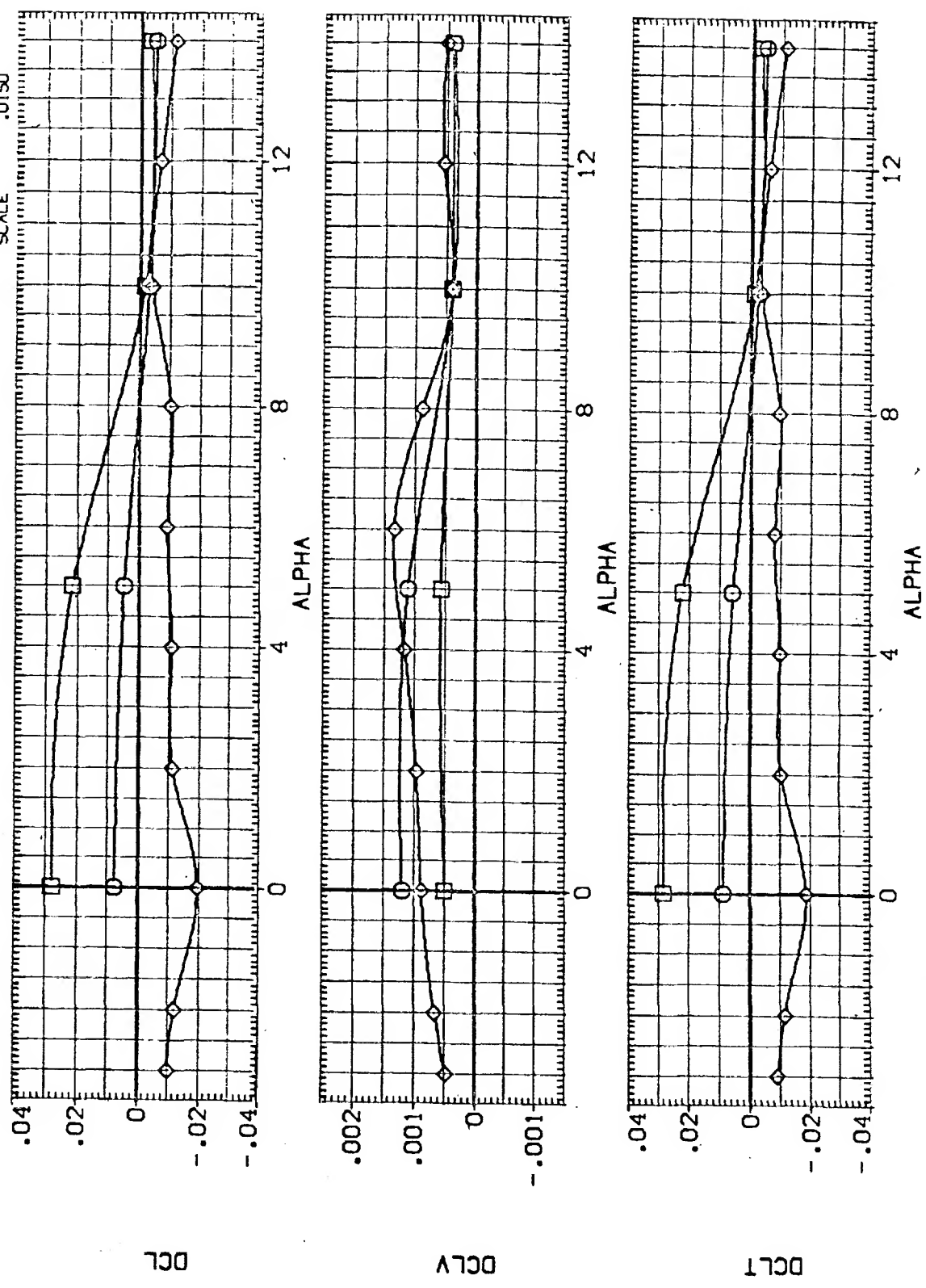


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(CH)MACH = 1.20

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

☐ (LE0012) ARC 66-709 DASS DA11A-(R5 V8)+STRUT
☐ (LE0009) ARC 66-709 DASS DA11A-(N24 R5 V3)+STRUT
☐ (LE0013) ARC 66-709 DASS DA11A-(R5 V8)+STRUT

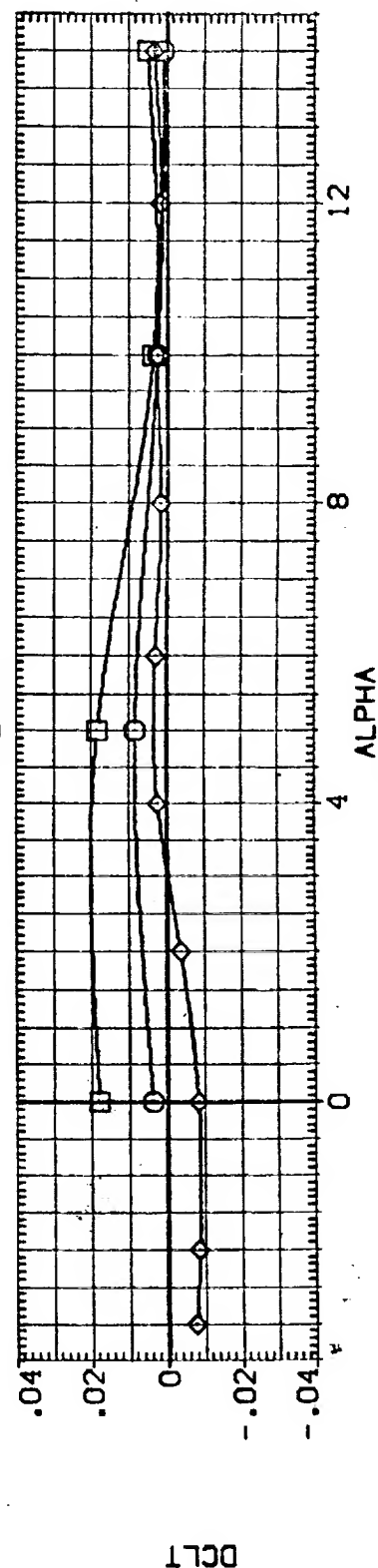
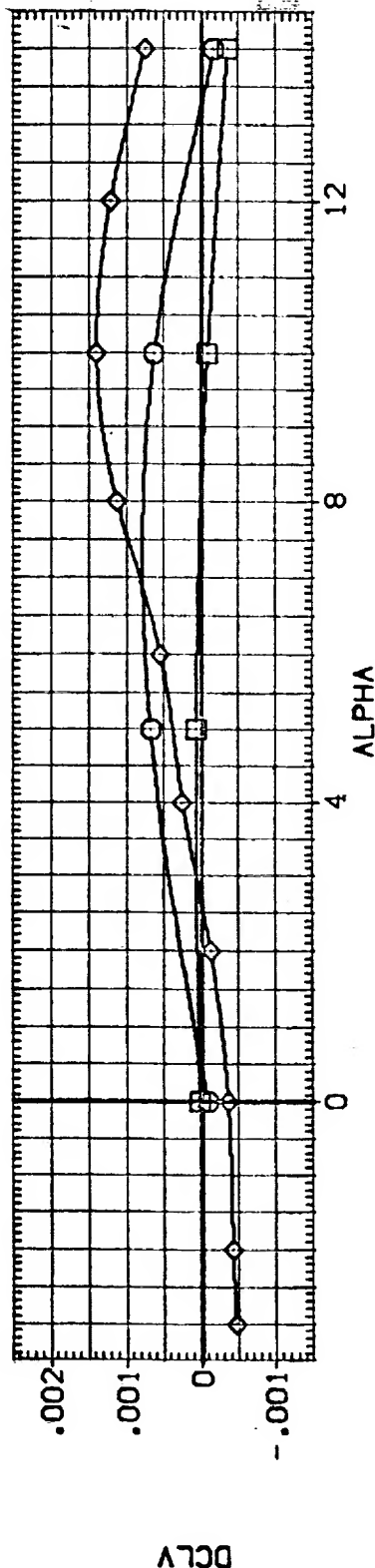
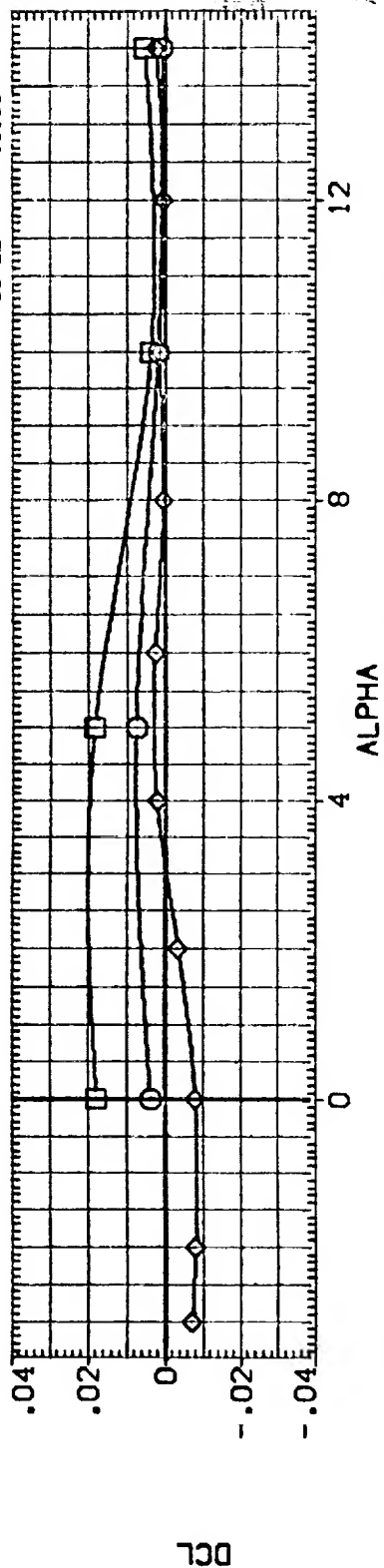


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CIJMACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(UERO12) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

(UERO09) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT

(UERO13) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BDF LAP

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

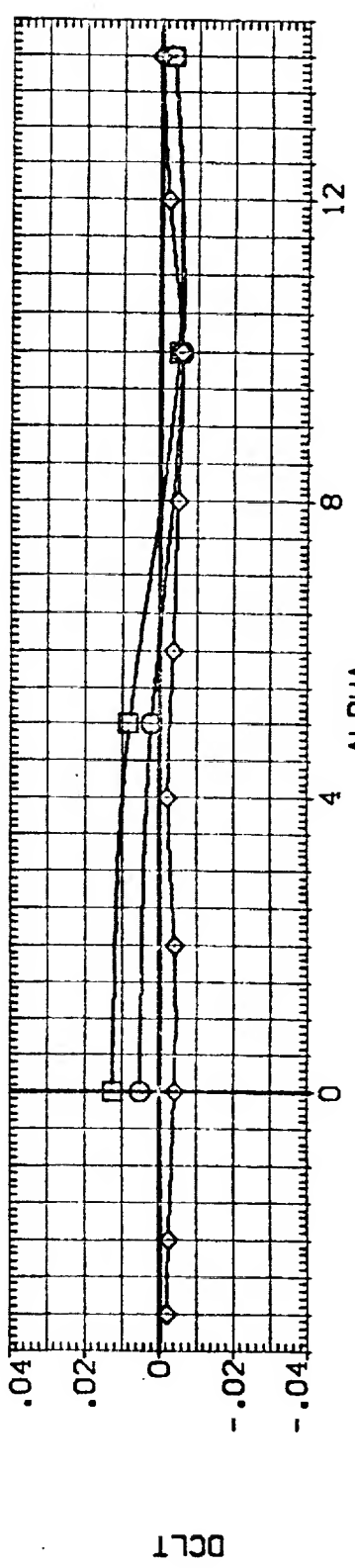
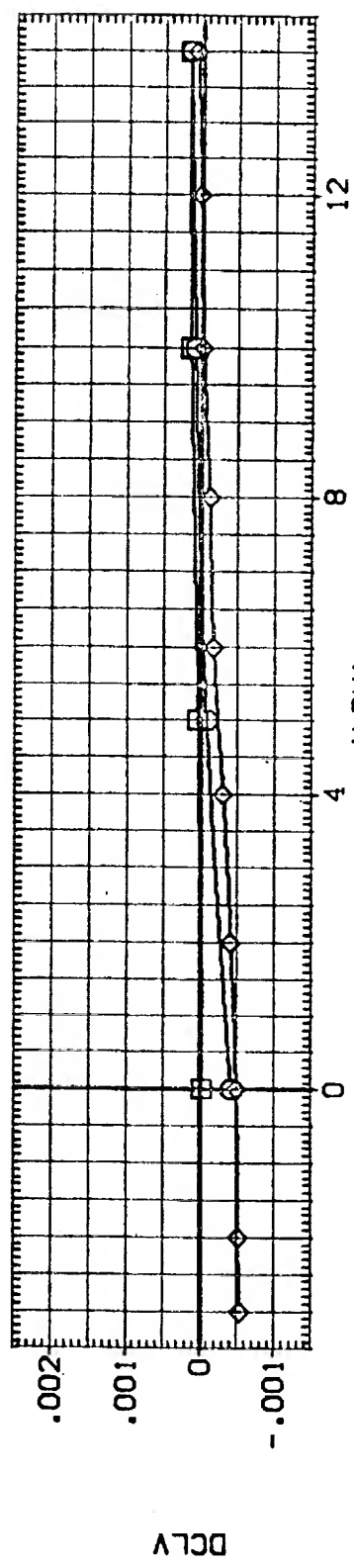
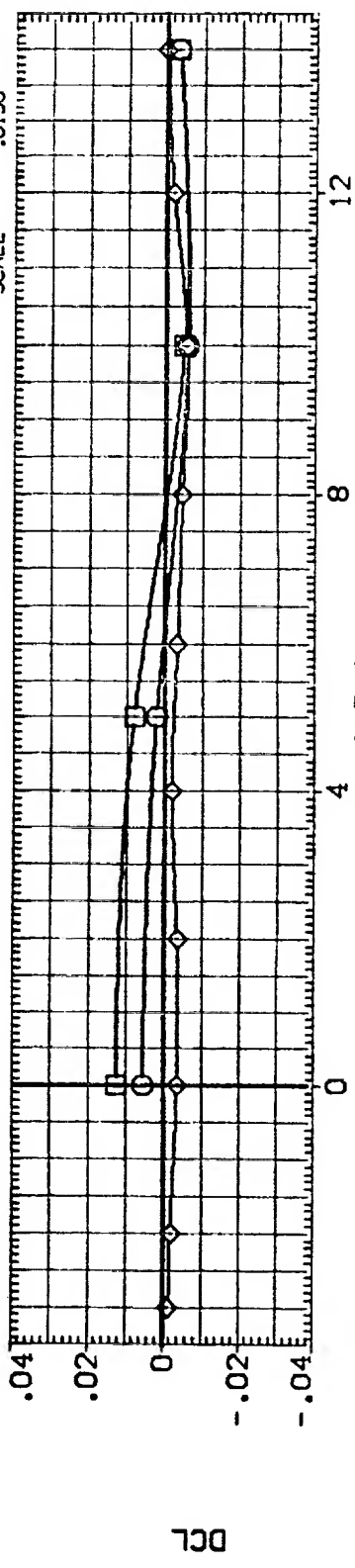


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UERO09)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UERO13)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	SREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

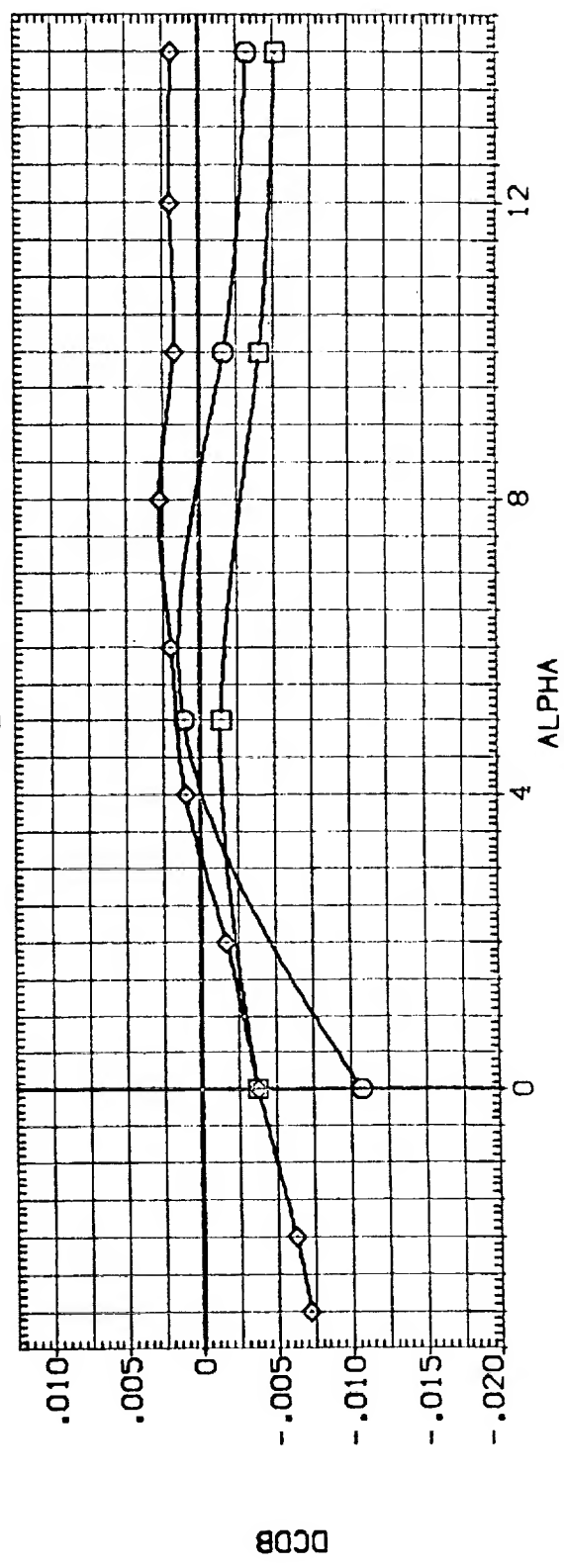
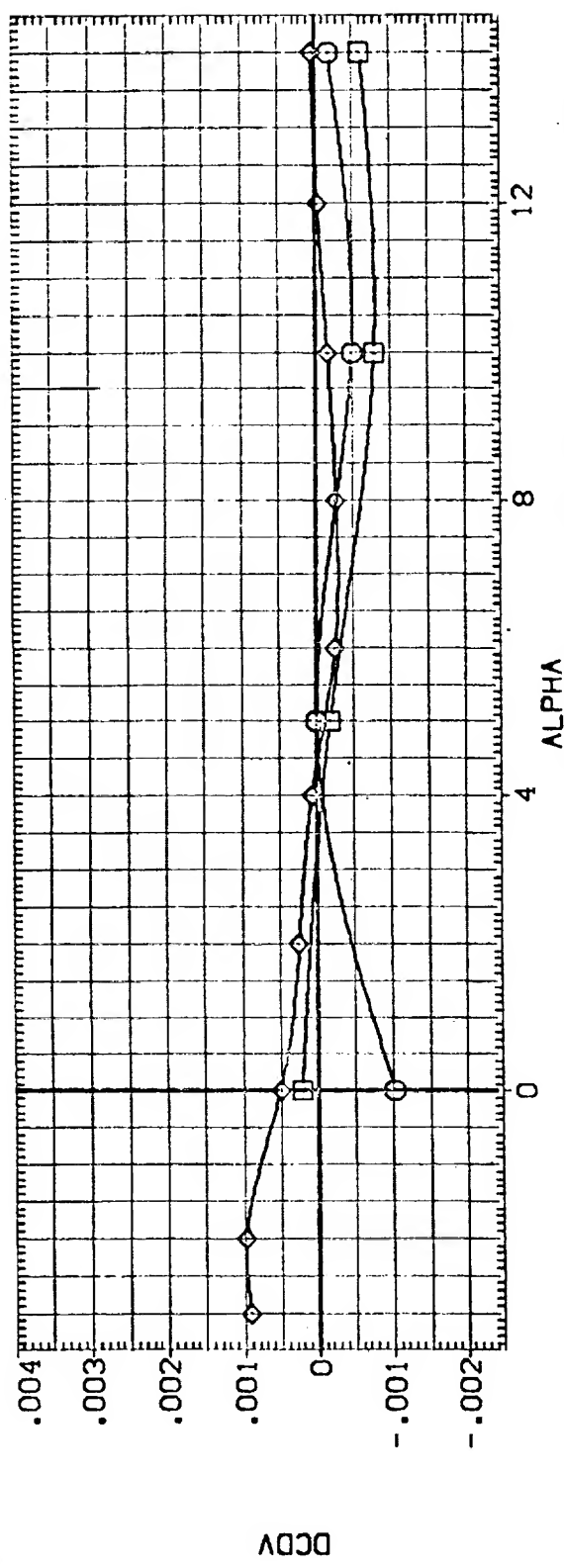


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UERO12) ARC 65-709 0A59 0A11A-(RS V8)*STRUT
 (UERO09) DATA NOT AVAILABLE
 (UERO13) ARC 65-709 0A59 0A11A-(RS V8)*STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

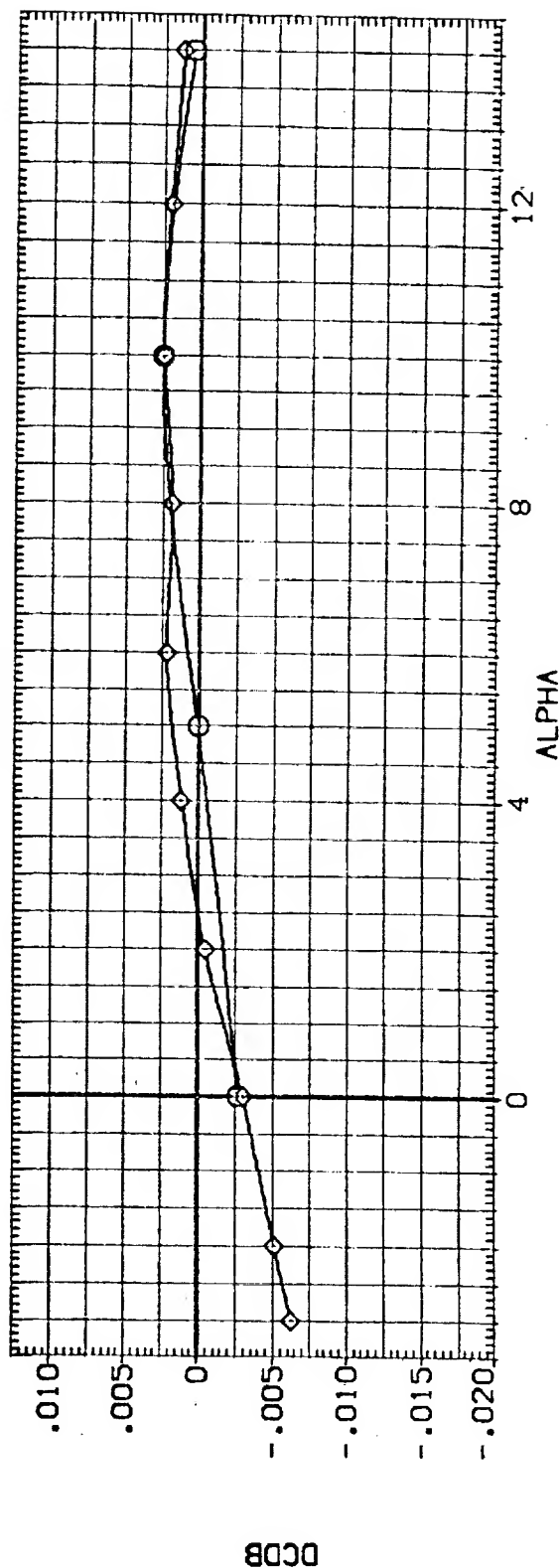
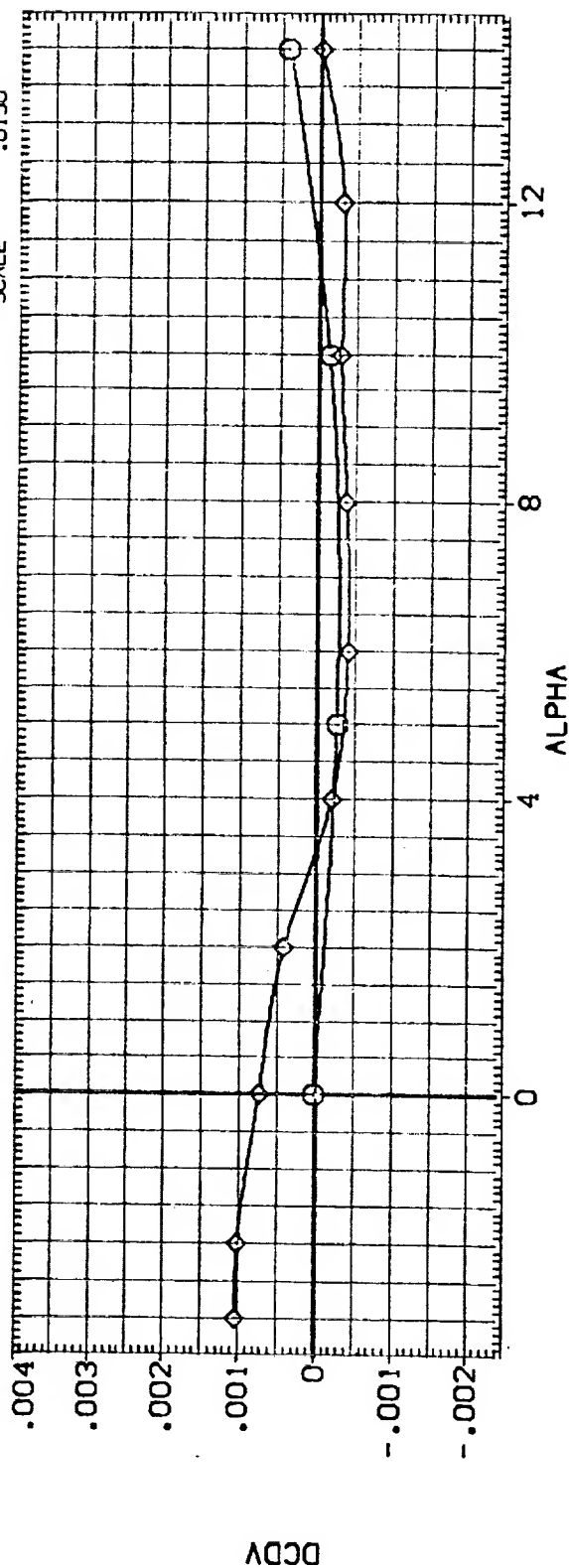


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL: (UER012)
 (UER009)
 (UER013)

CONFIGURATION DESCRIPTION:
 ARC 66-709 DASS DA11A-(RS V81)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700
 .000
 .000
 15.000
 -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6235 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

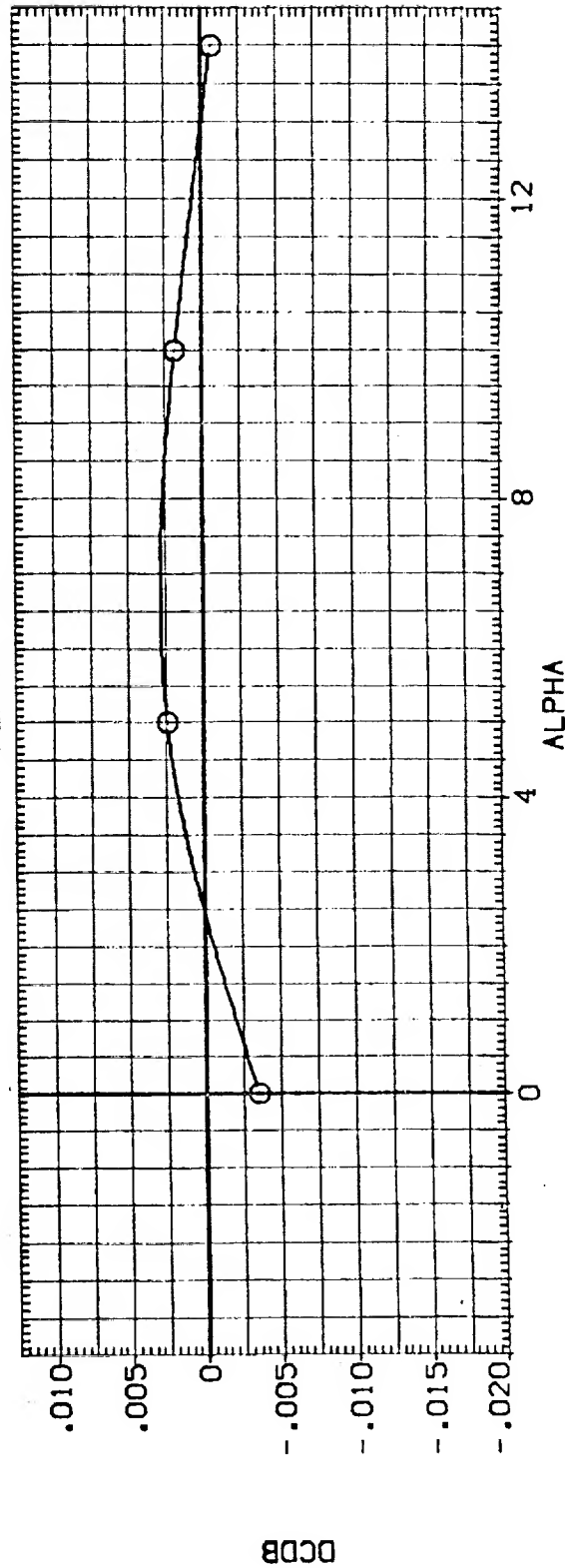
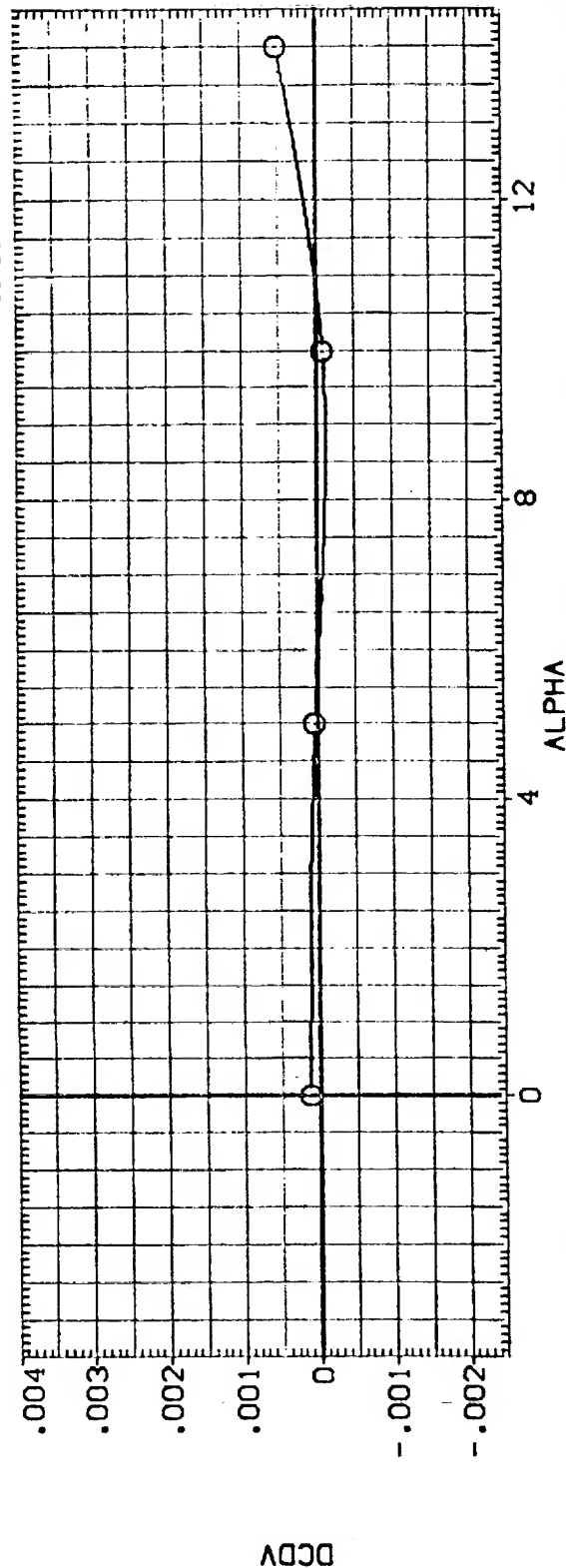


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UERO09)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UERO13)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

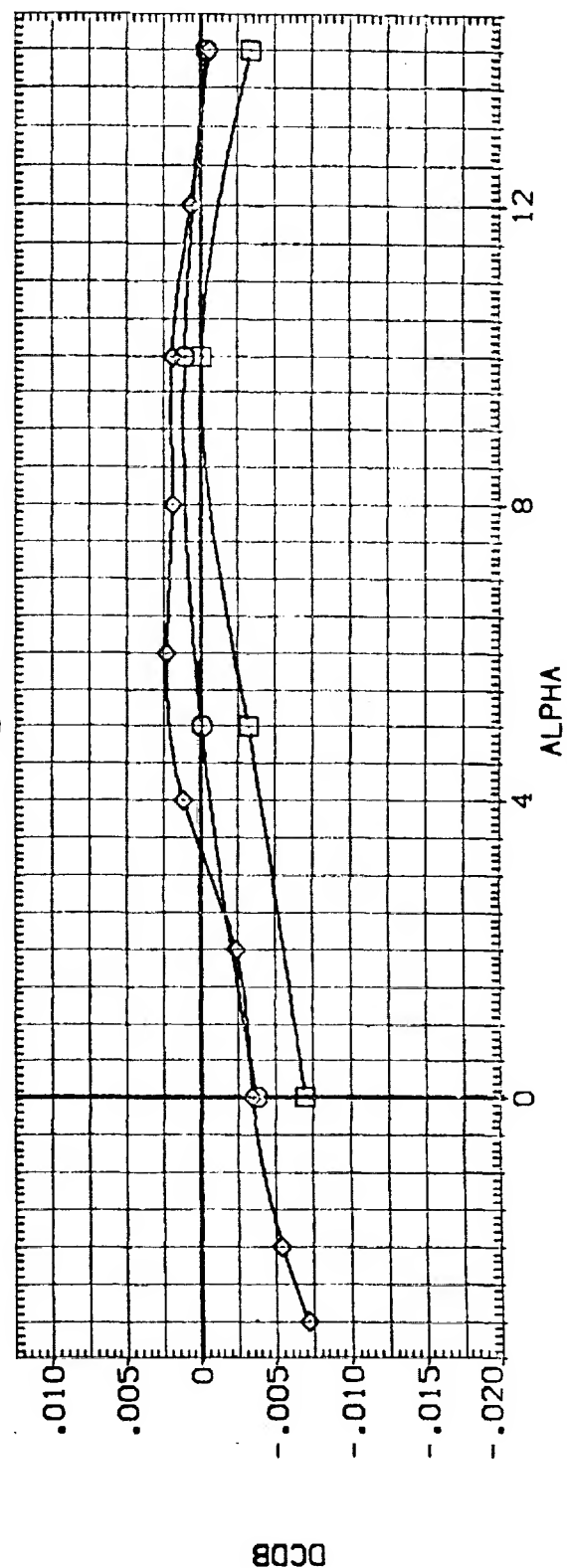
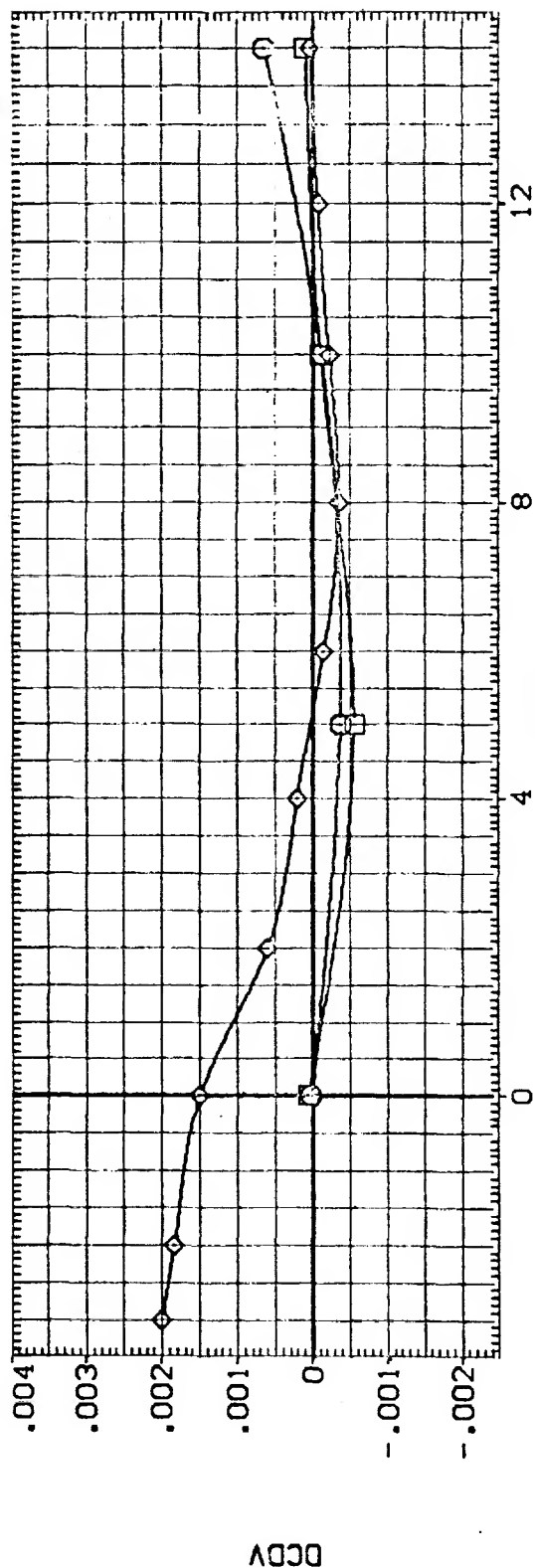


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(D)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(UER013)	DATA NOT AVAILABLE	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

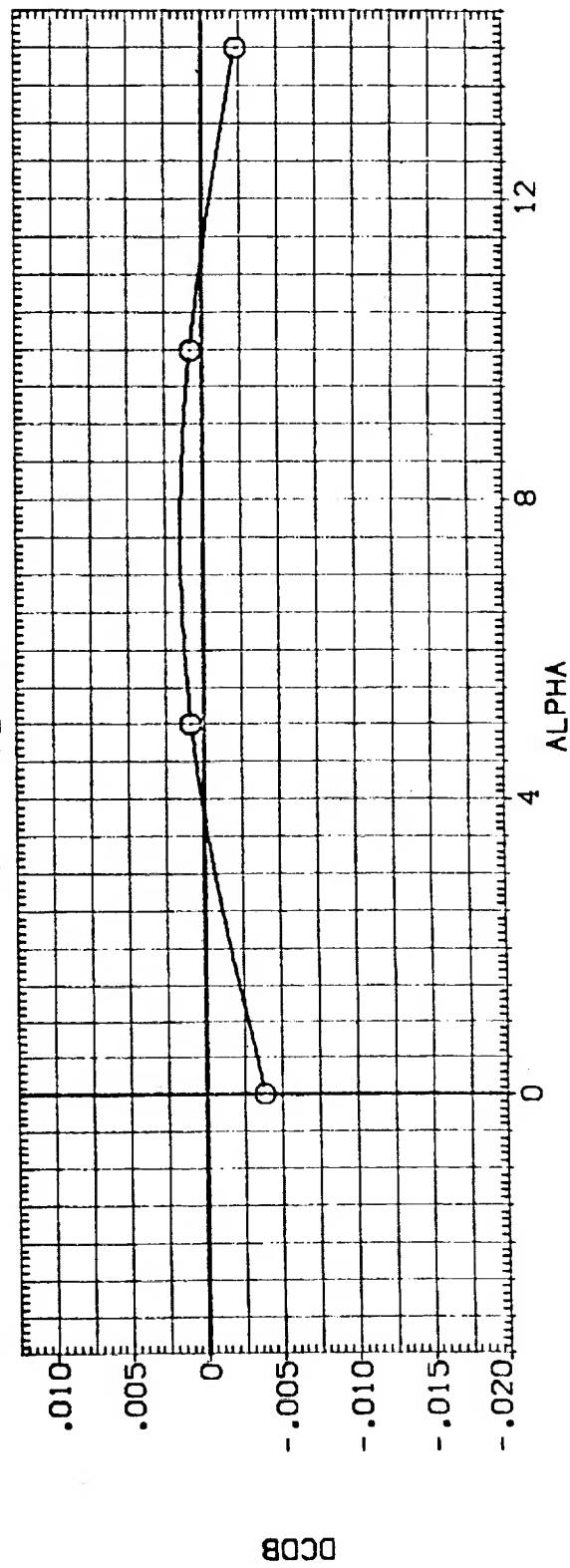
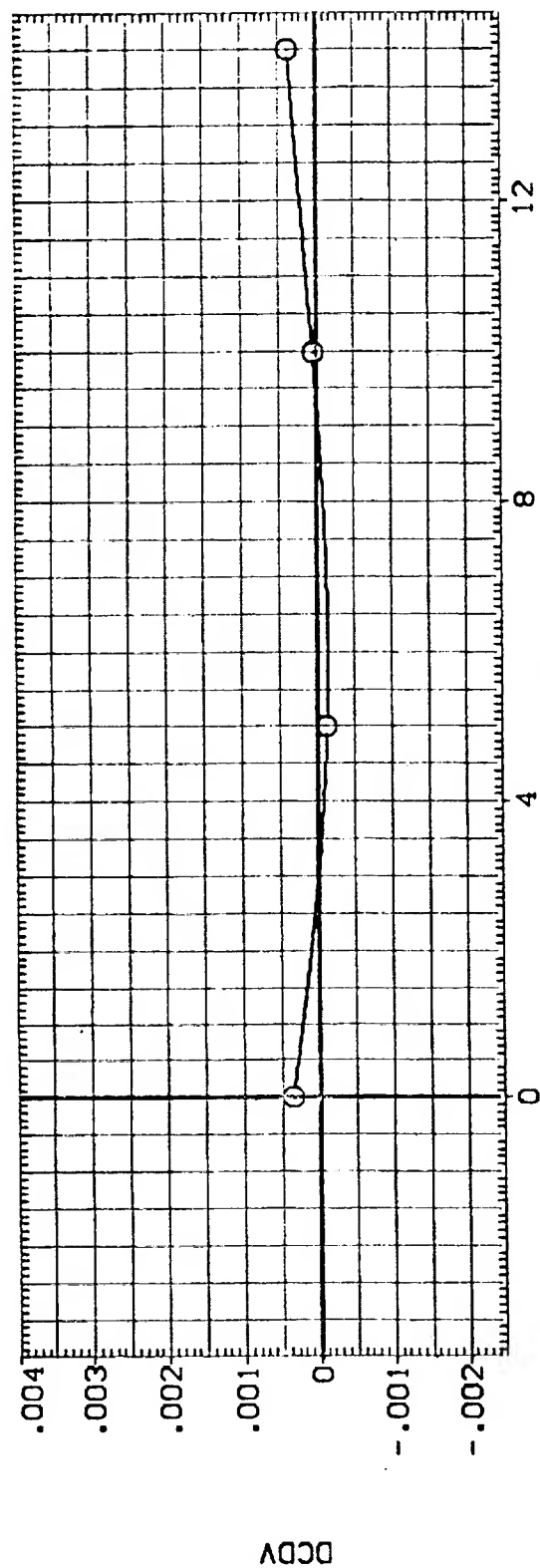


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

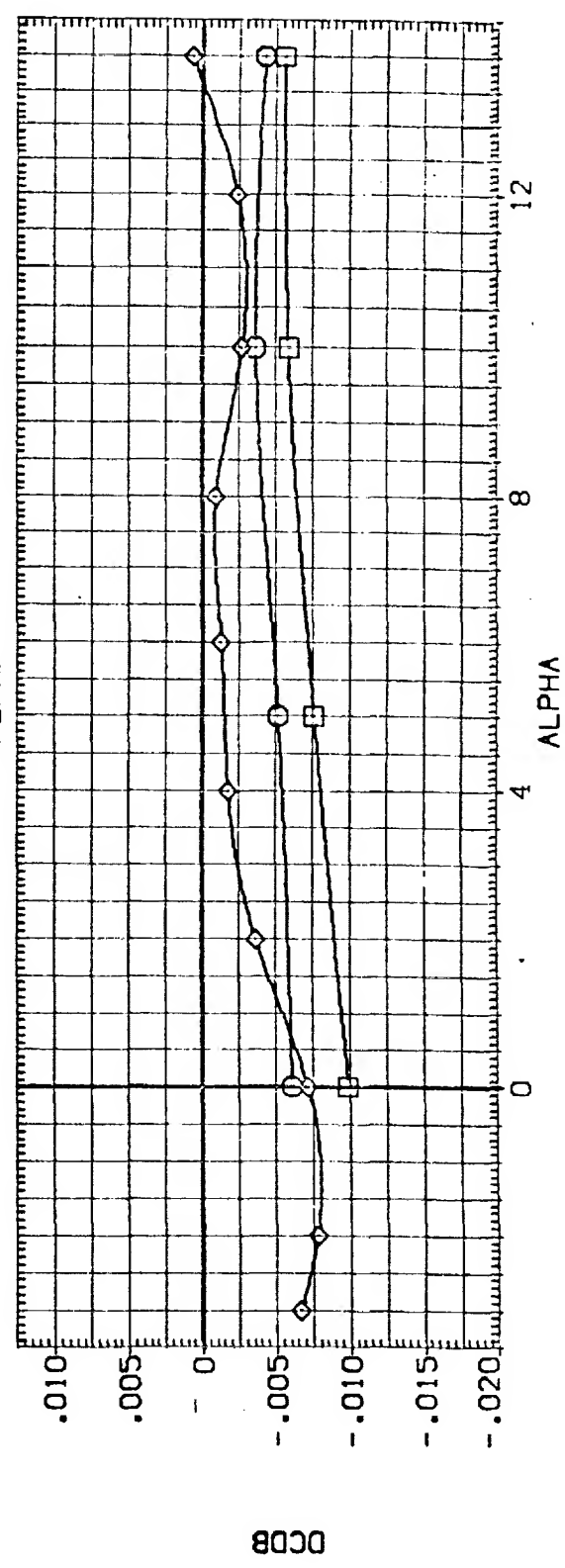
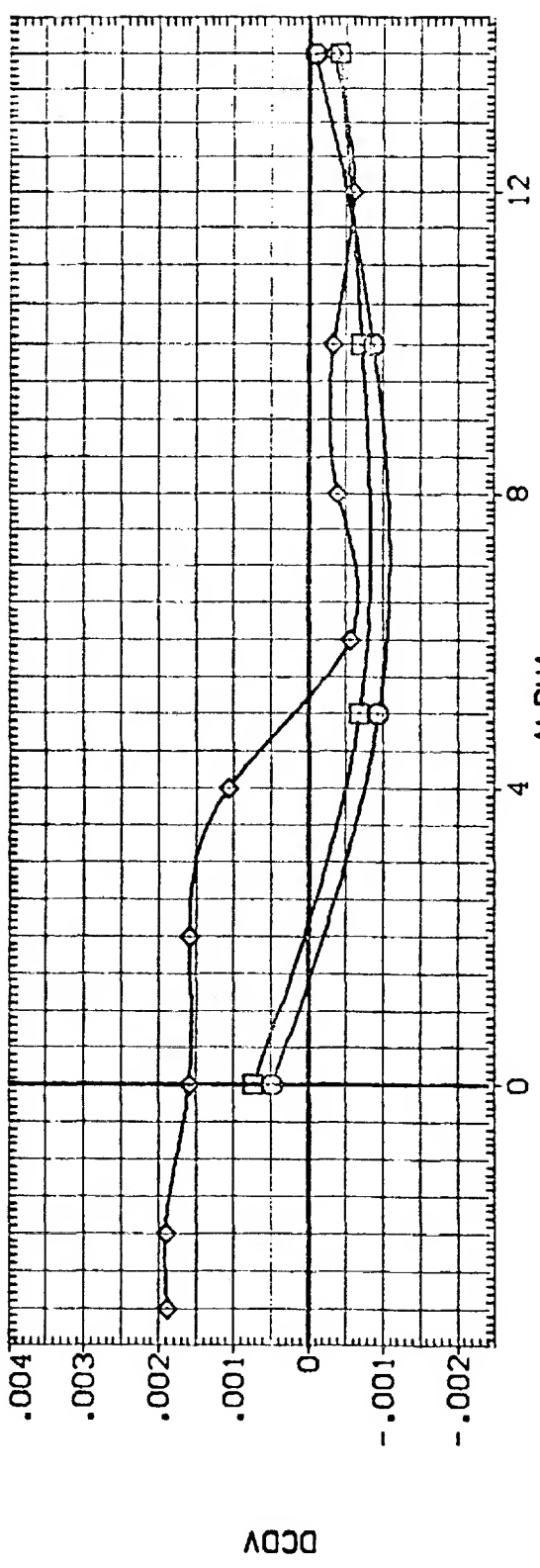


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(UER012) ARC 66-709 DA59 0A11A-(RS V8)+STRUT

(UER009) DATA NOT AVAILABLE

(UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

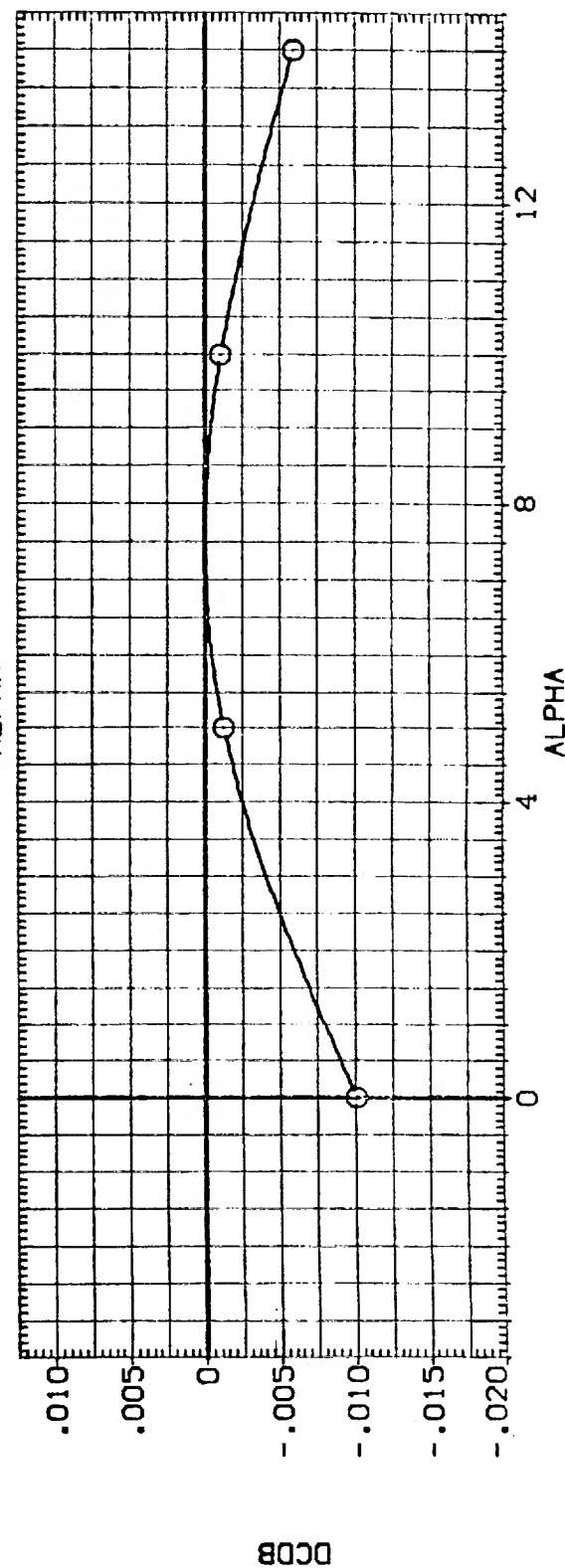
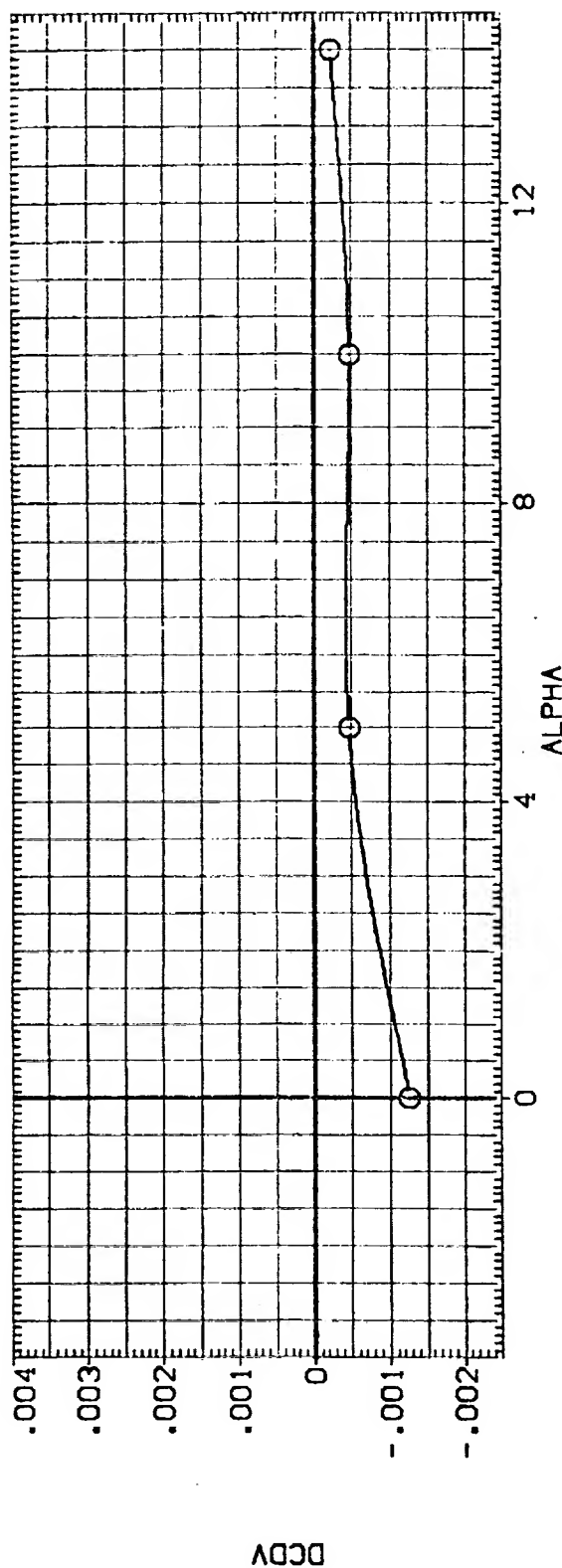


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	SOFLAP	REFERENCE INFORMATION
[UERO12]	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 50.FT.
[UERO09]	ARC 66-709 0A59 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
[UERO13]	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

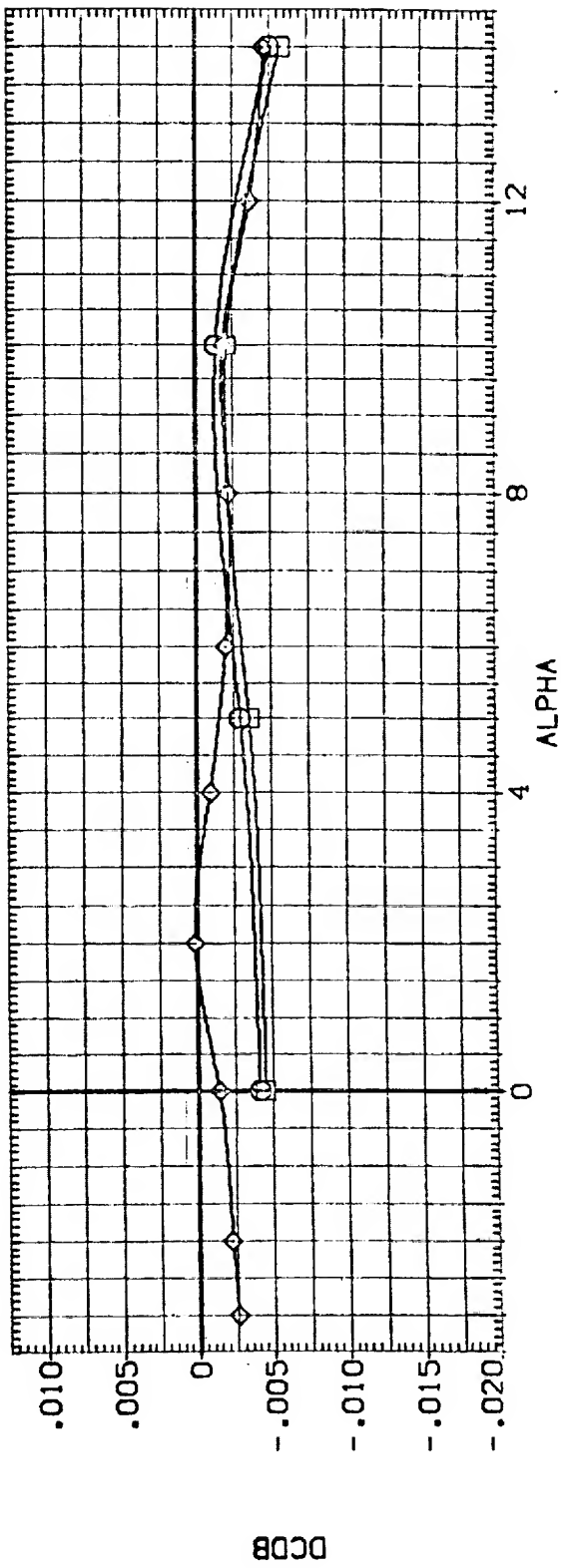
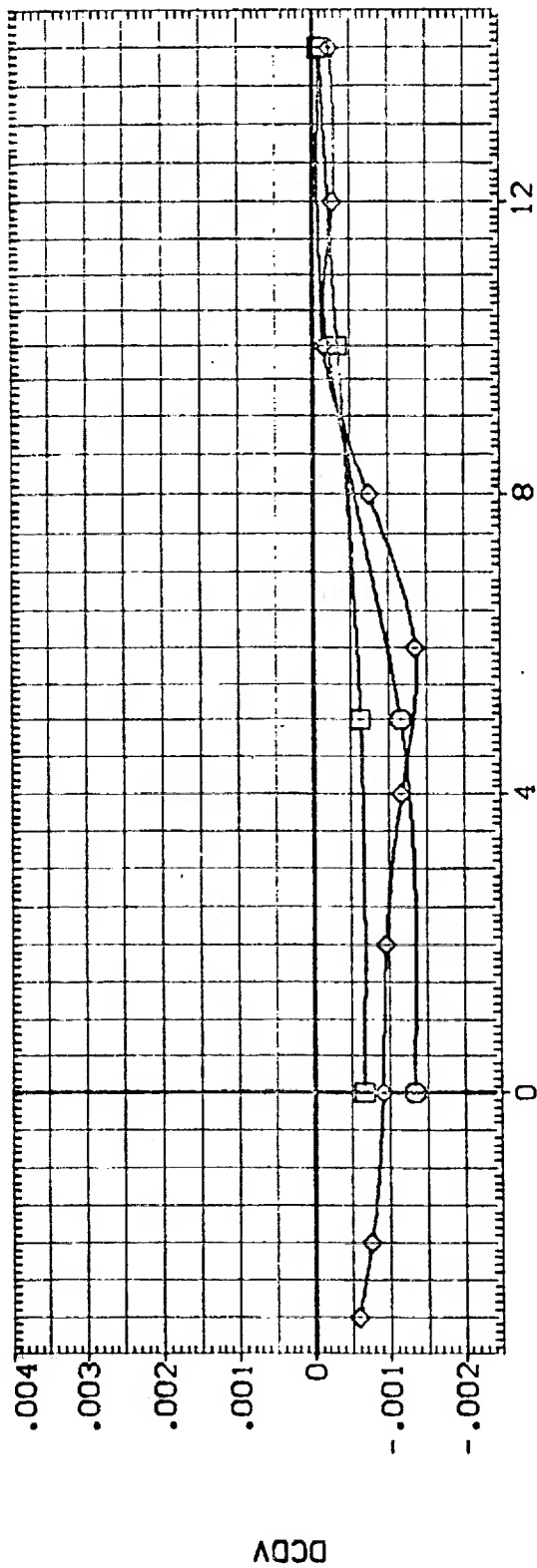


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5835 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE 10:50

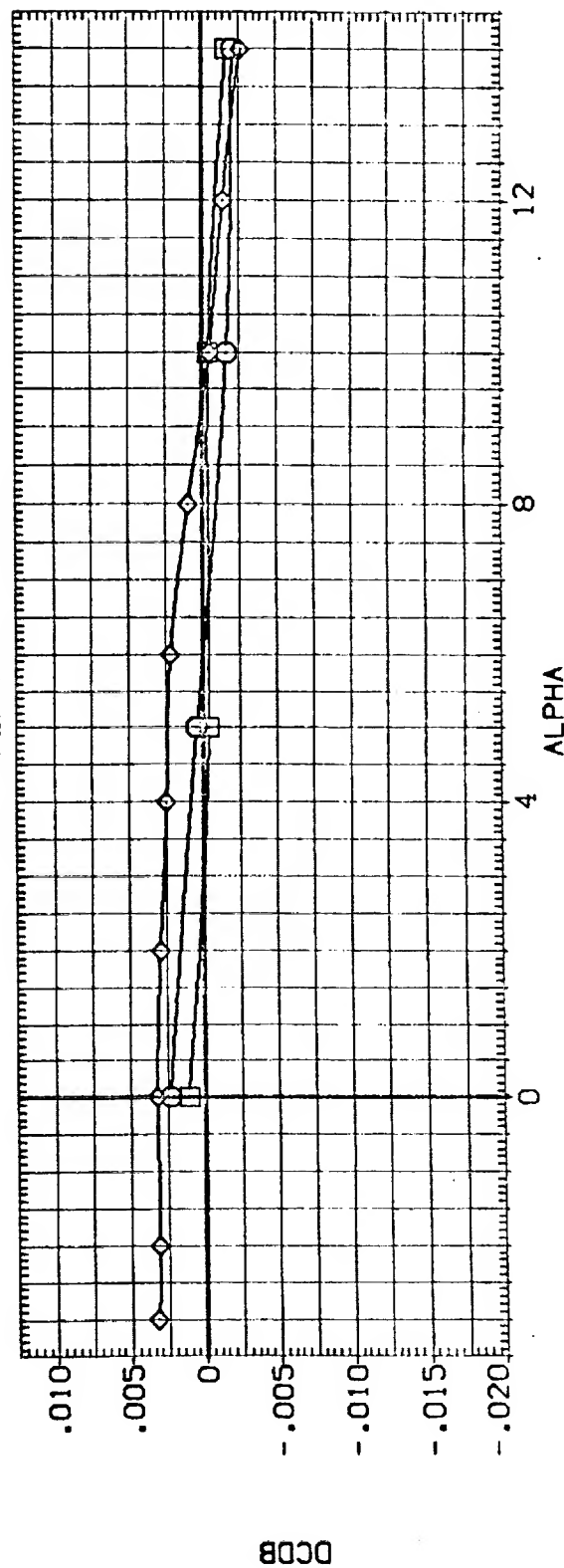
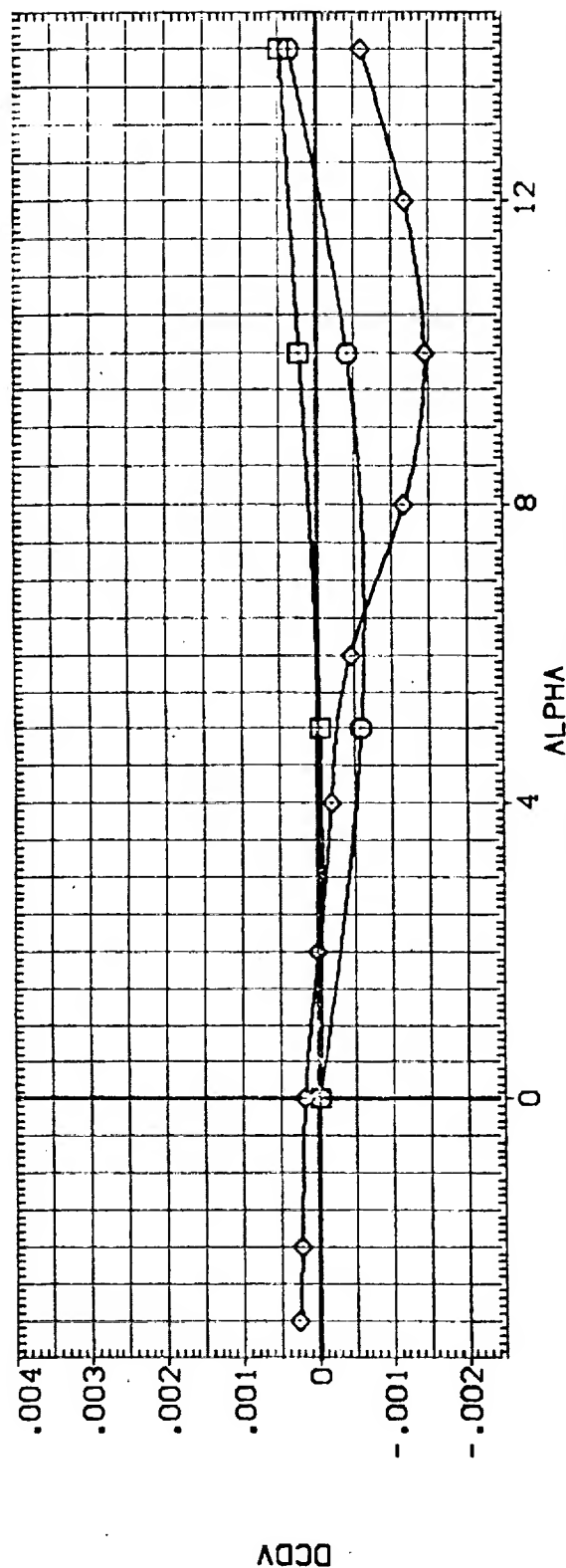


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6285 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

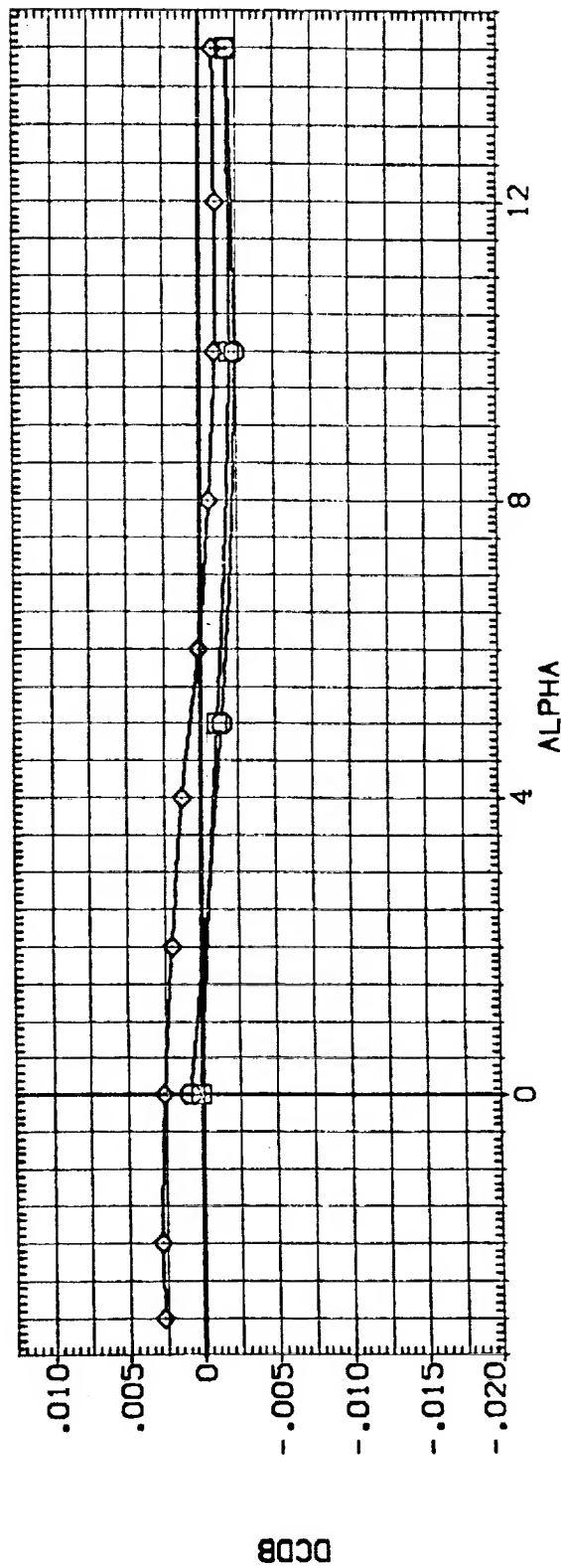
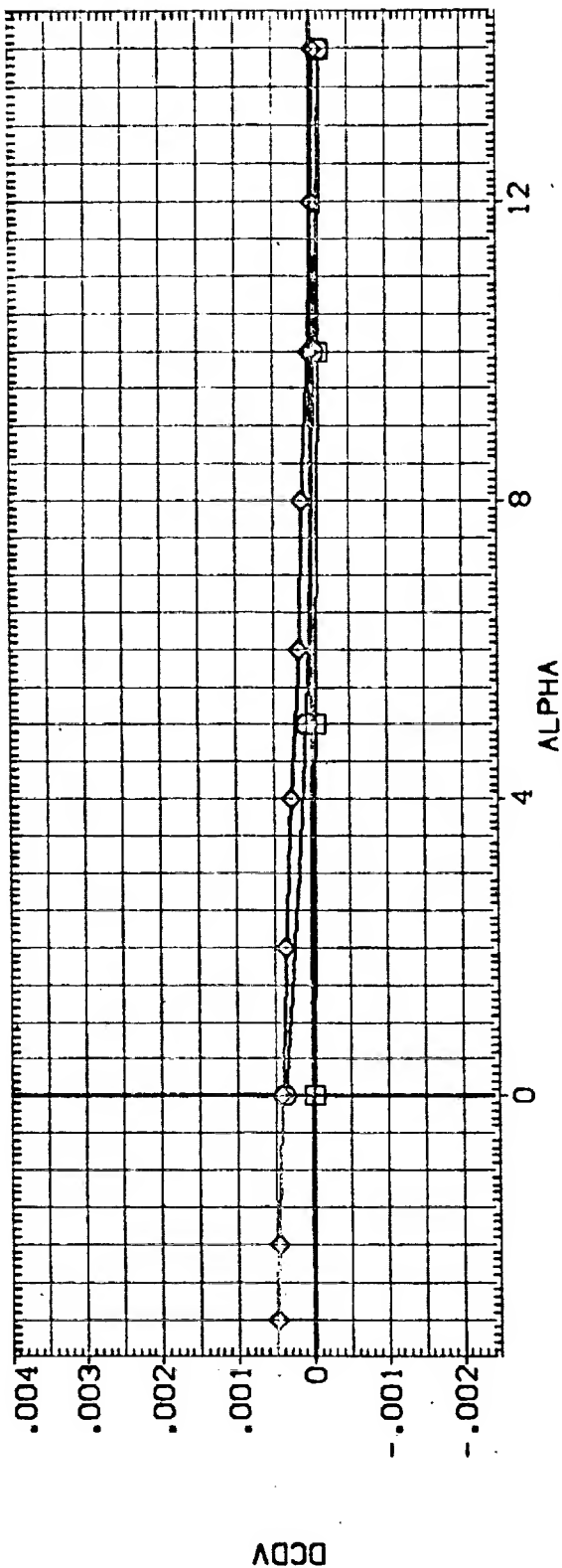


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .5053 SQ.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

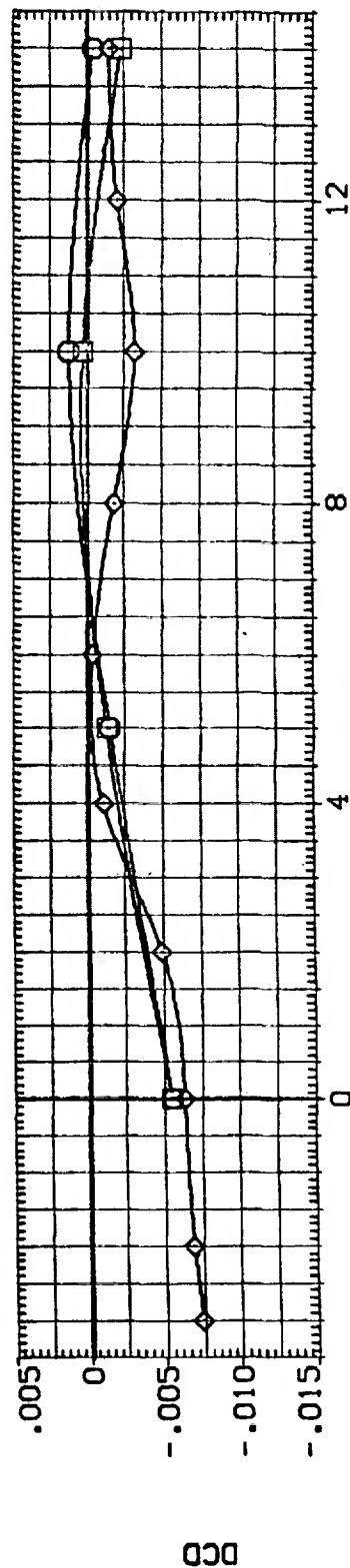
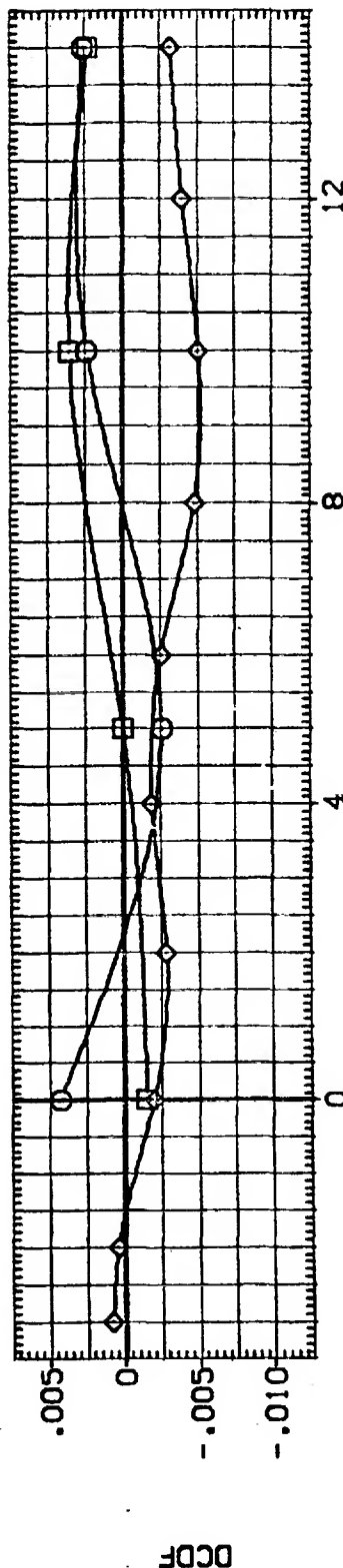
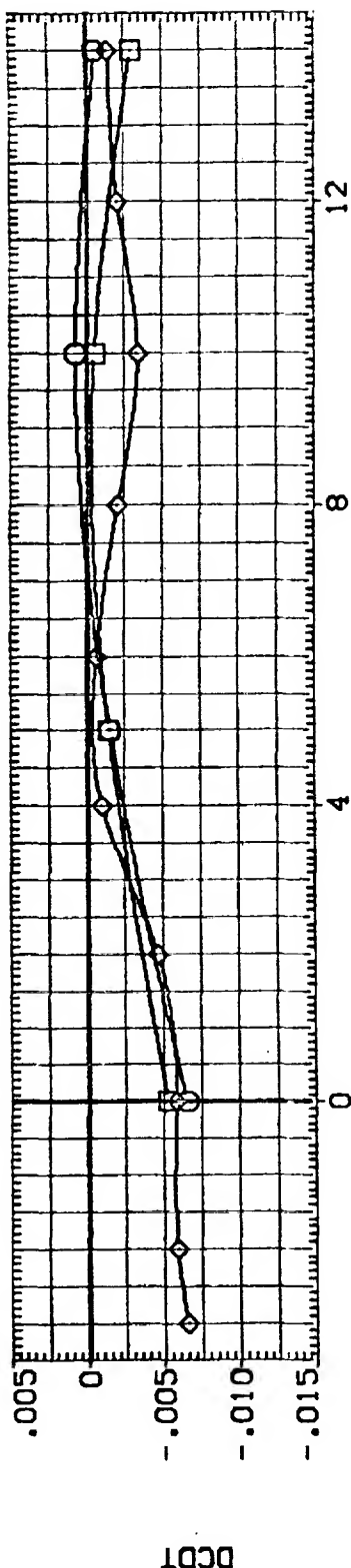


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

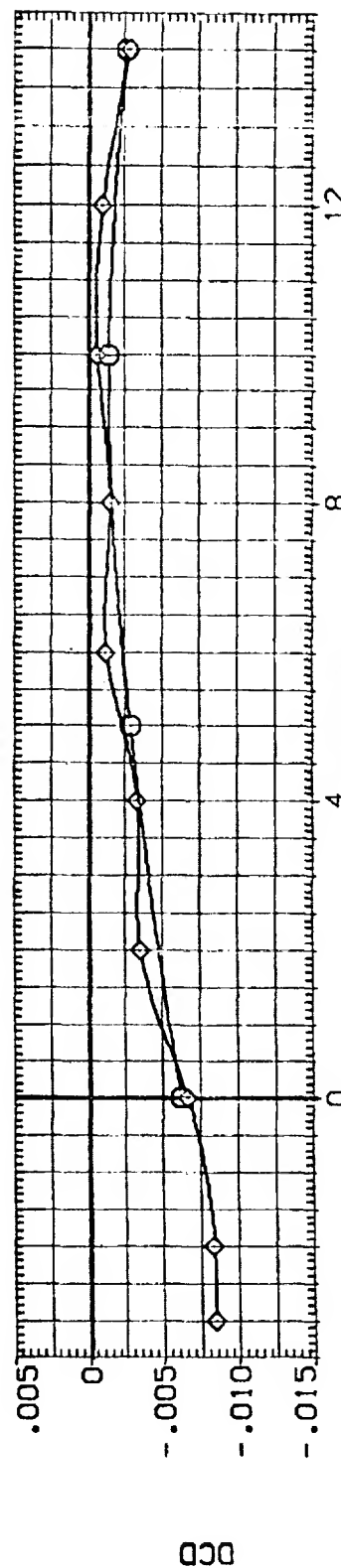
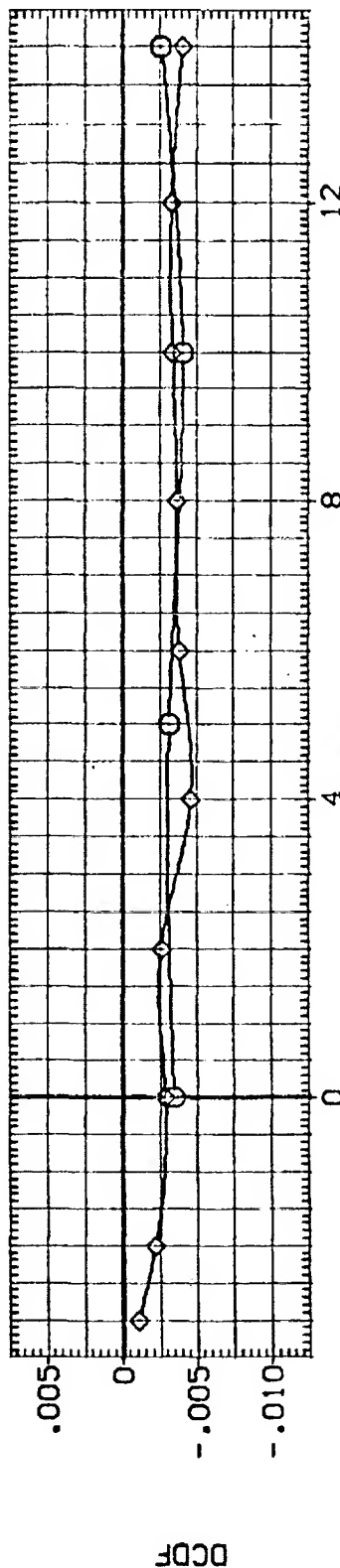
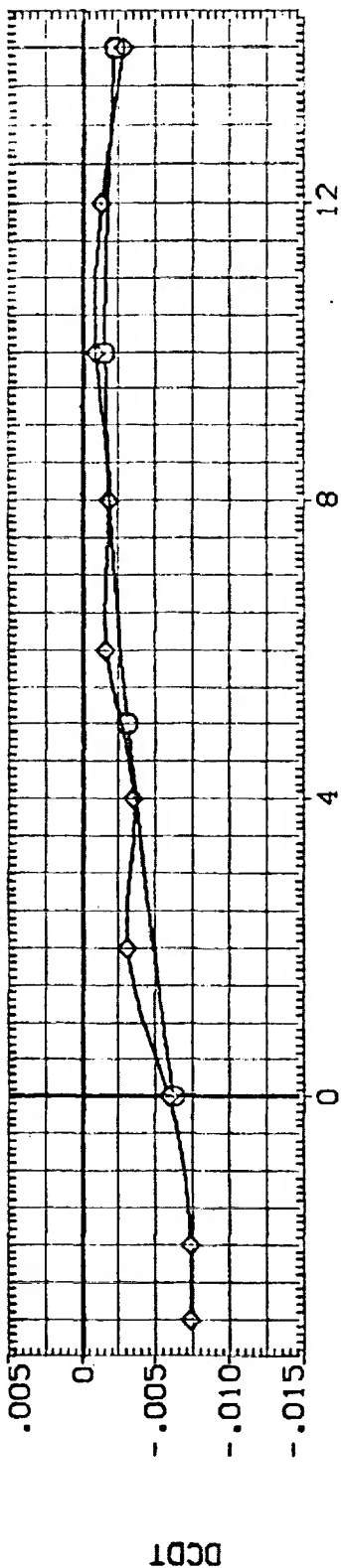


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER012) ARC 65-709 DASH 0A11A-(RS V8)-STRUT
 (UER009) DATA NOT AVAILABLE
 (UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5535 FT.
 BREF 1.170 FT.
 XMRP 12.6755 IN.
 YMRP .0000 IN.
 ZMRP -3.50 IN.
 SCALE 0.50

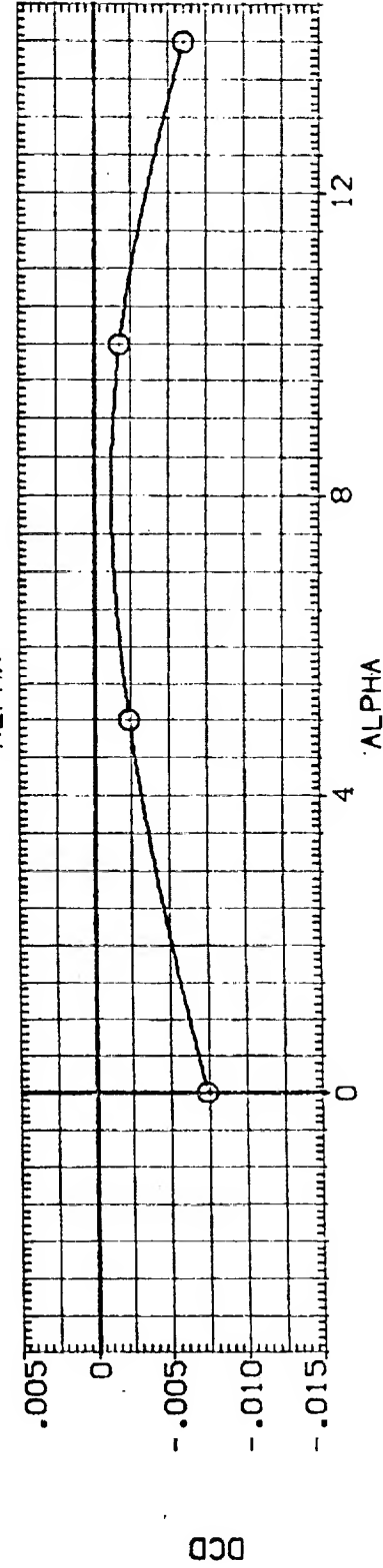
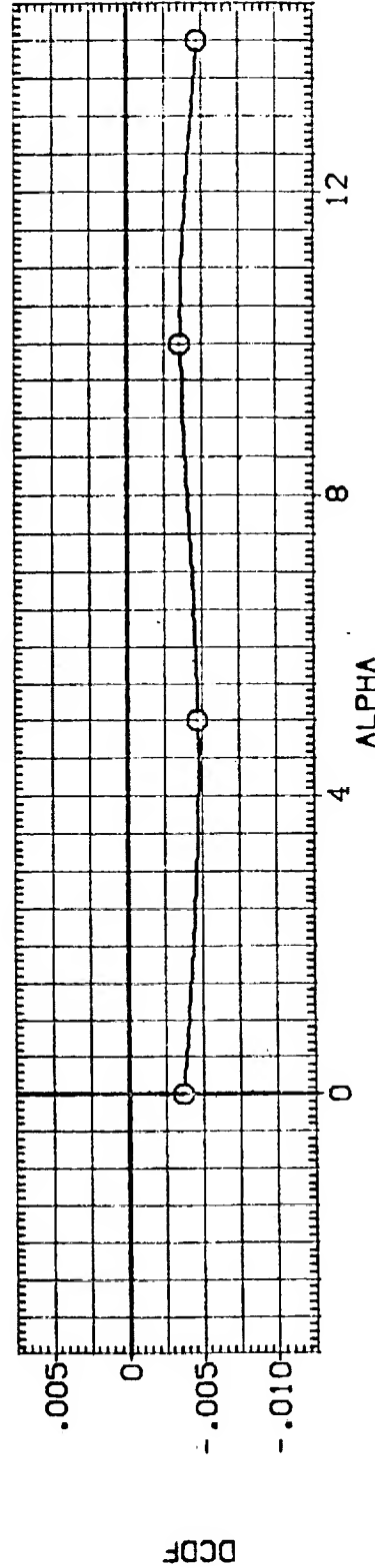
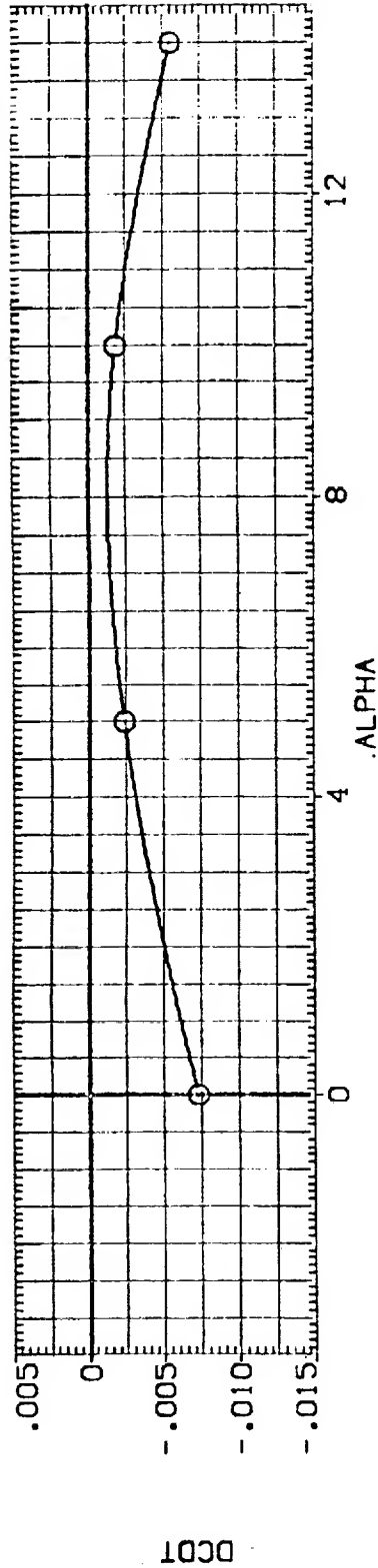


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0AS9 0A11A-(RS VB)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0AS9 0A11A-(N24 RS VB)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0AS9 0A11A-(RS VB)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

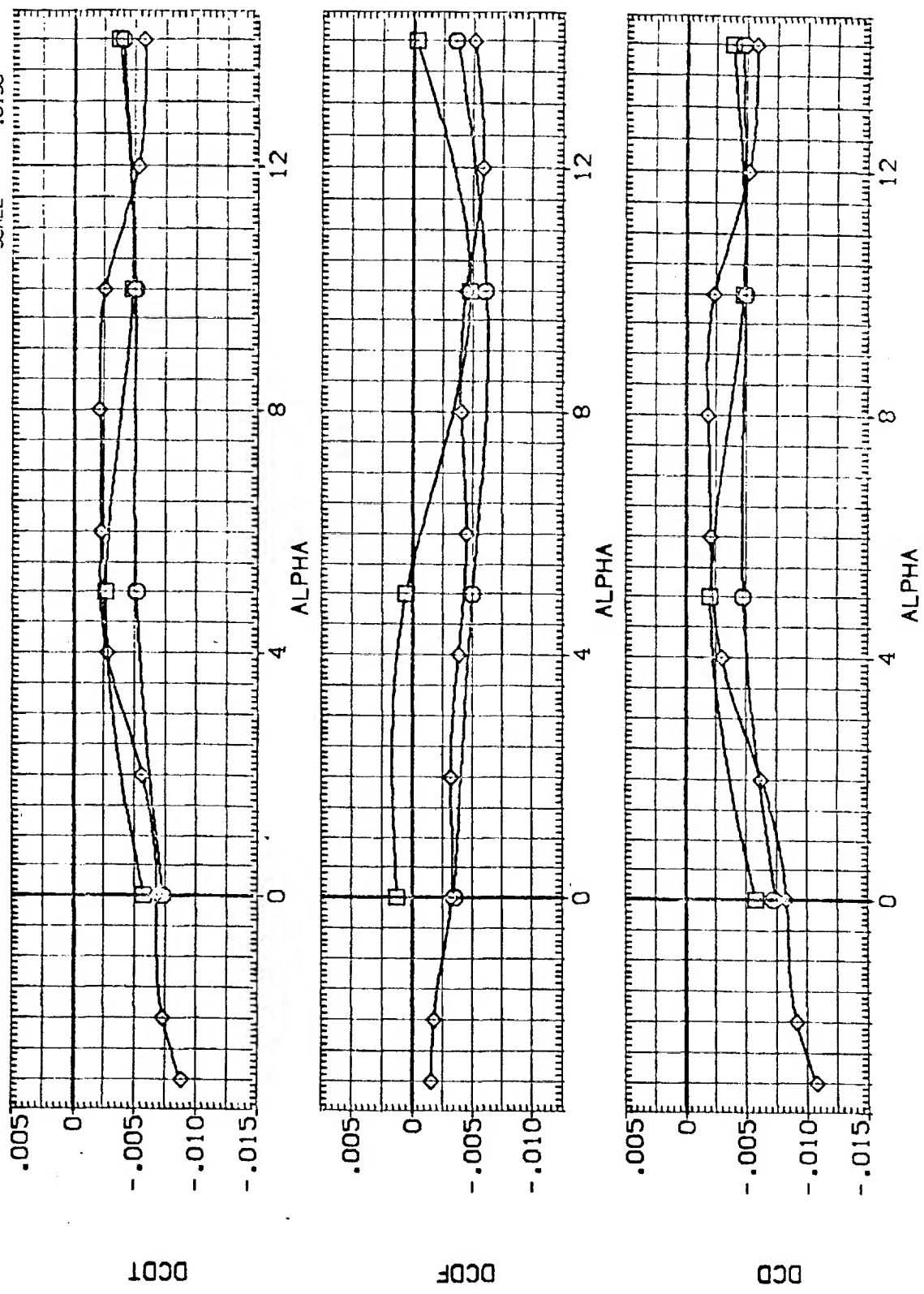


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CDMACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER012) ARC 66-709 0A59 0A11A-(R5 V8)-STRUT
 (UER009) DATA NOT AVAILABLE
 (UER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

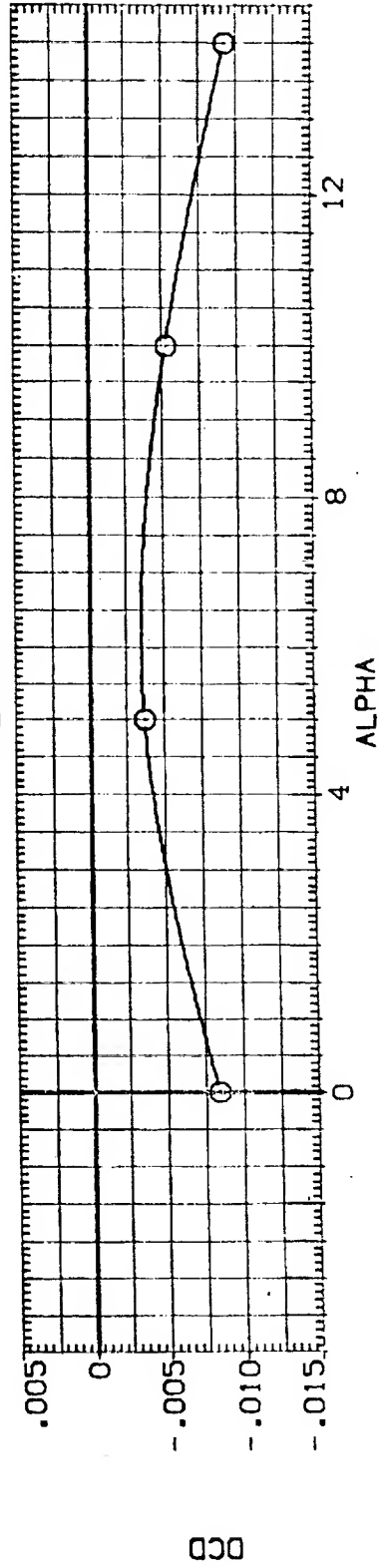
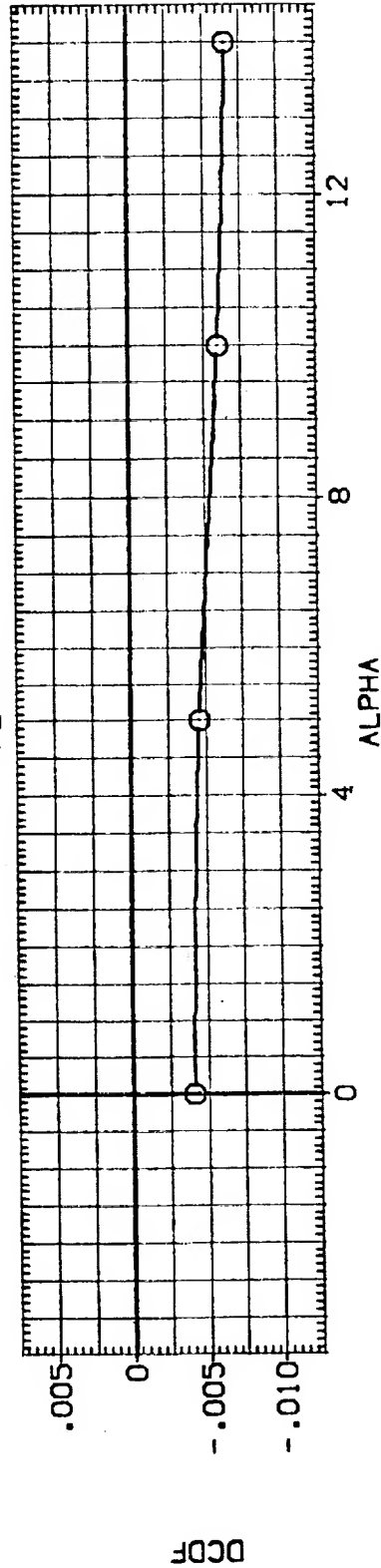
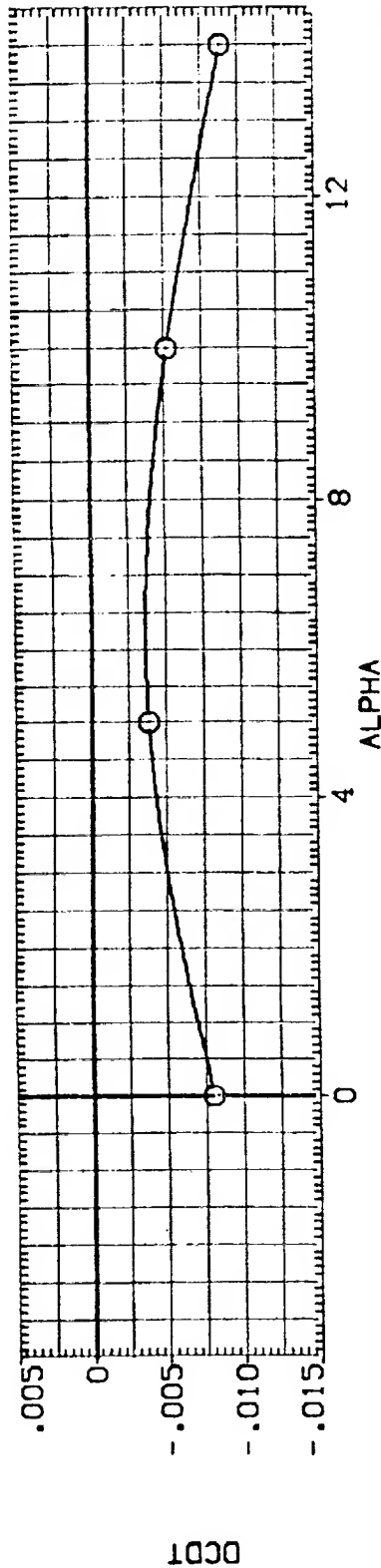


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6253 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

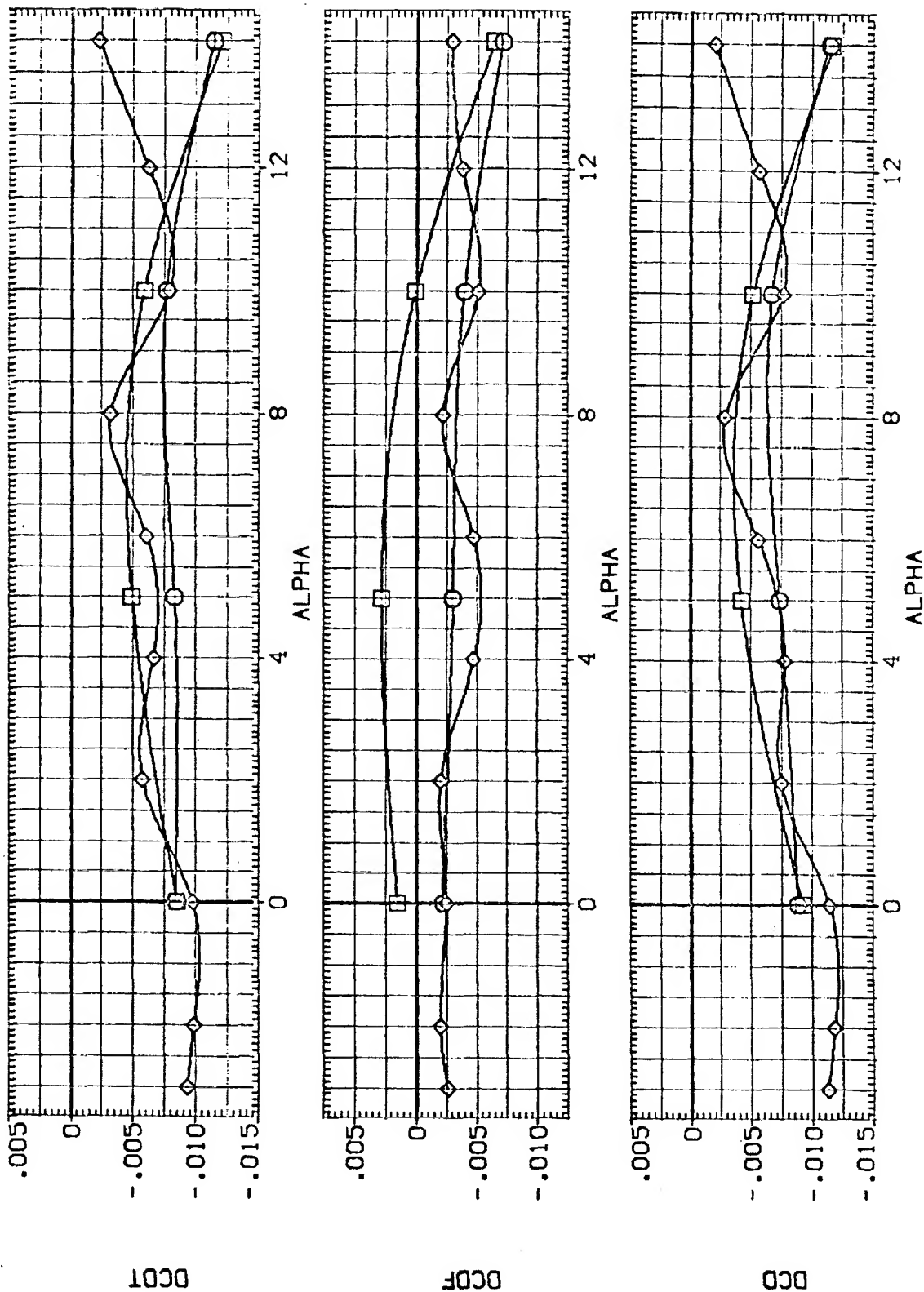


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL. CONFIGURATION DESCRIPTION
 (UERO12) ARC 65-709 QAS9 0A11A-(P5 V8)+STRUT
 (UERO09) DATA NOT AVAILABLE
 (UERO13) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 YMRP 12.6255 IN.
 ZMRP .0000 IN.
 SCALE -.3750 IN.
 .0150

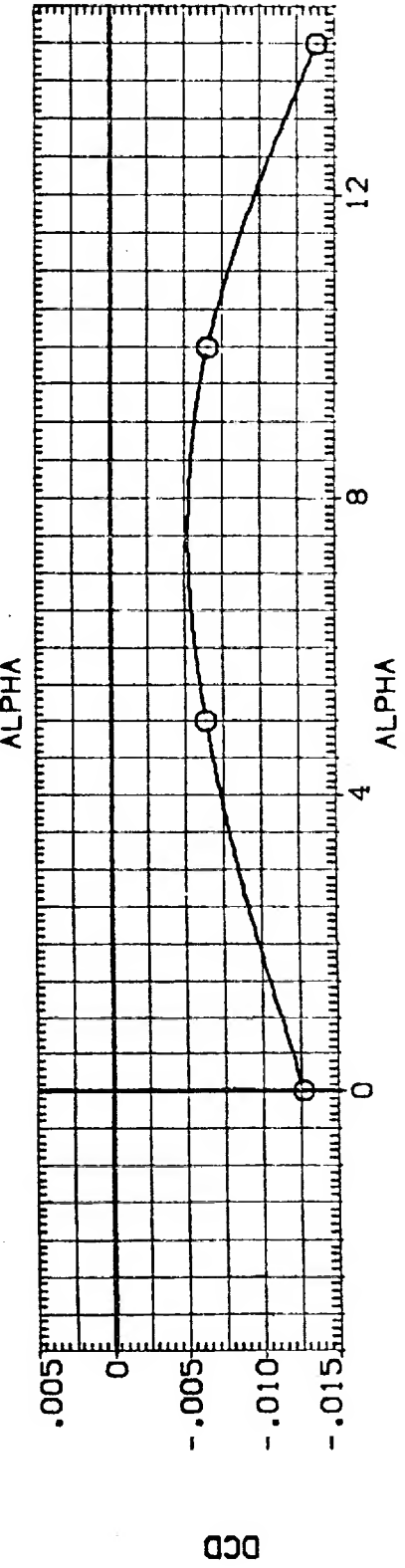
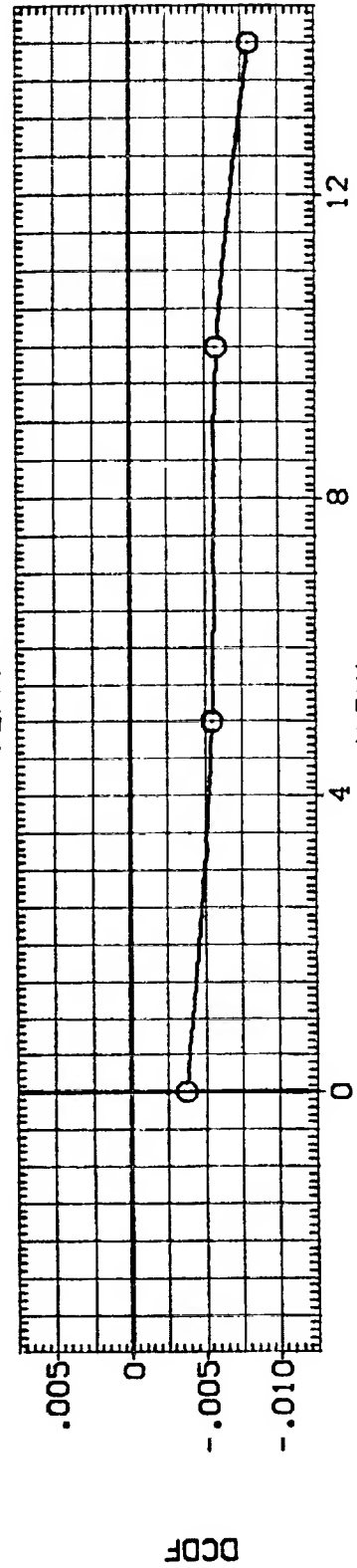
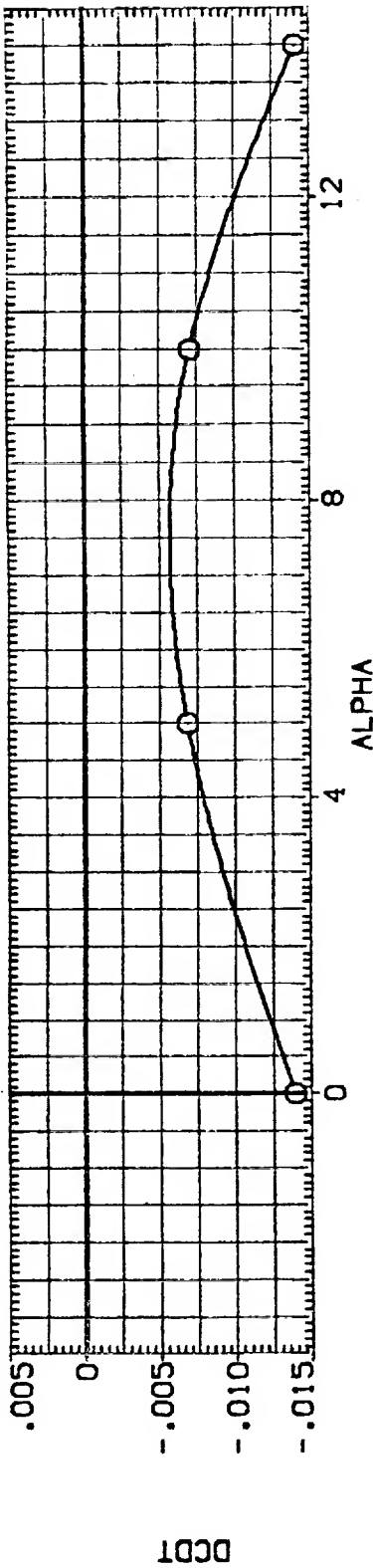


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 DASS9 DAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER009)	ARC 66-709 DASS9 DAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 DASS9 DAI1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

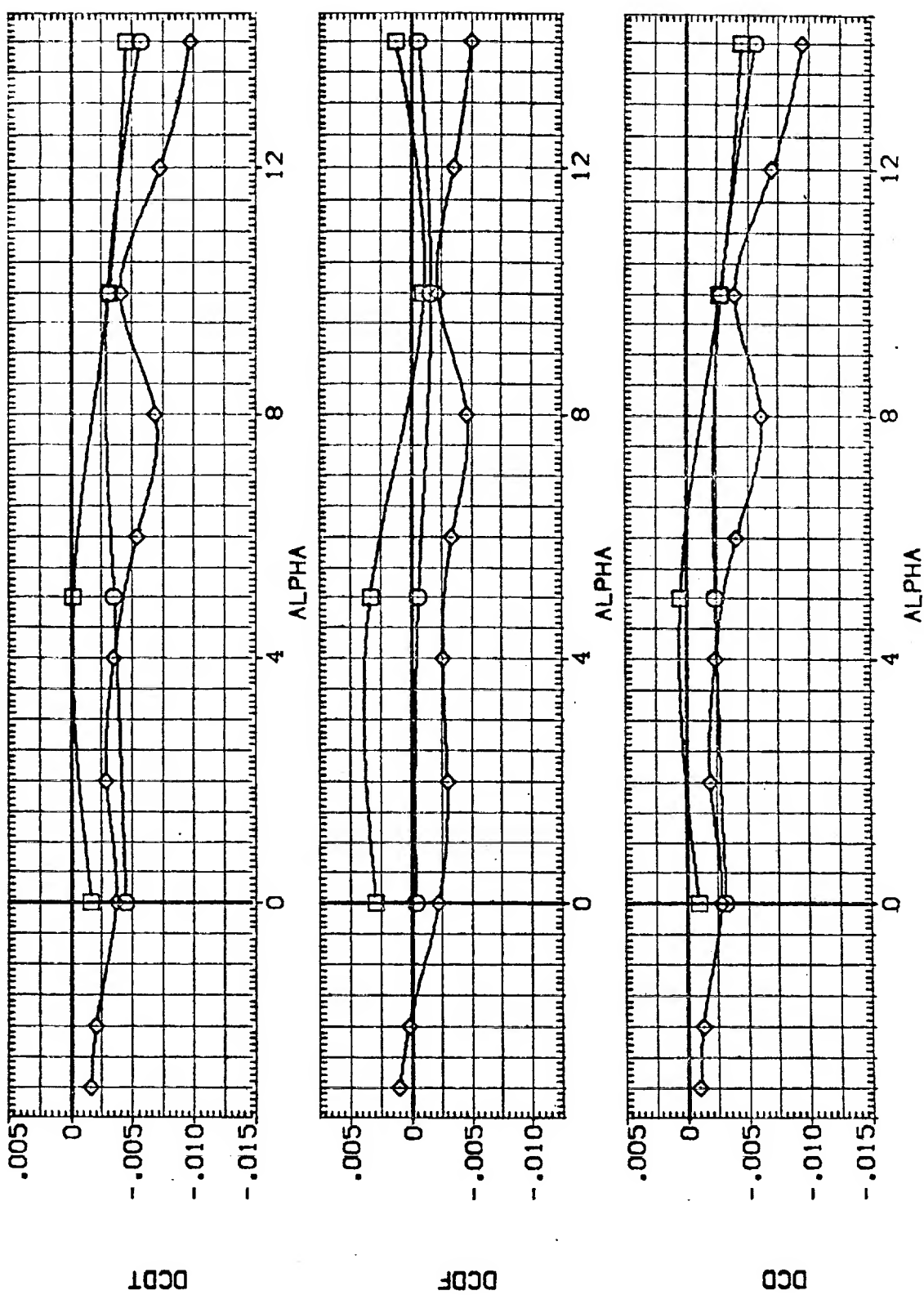


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

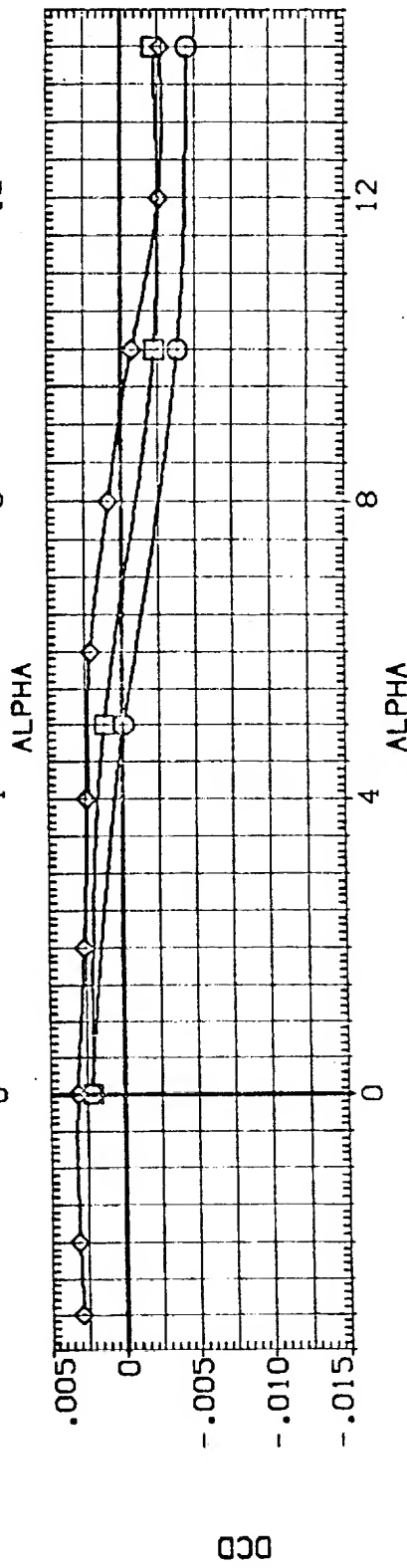
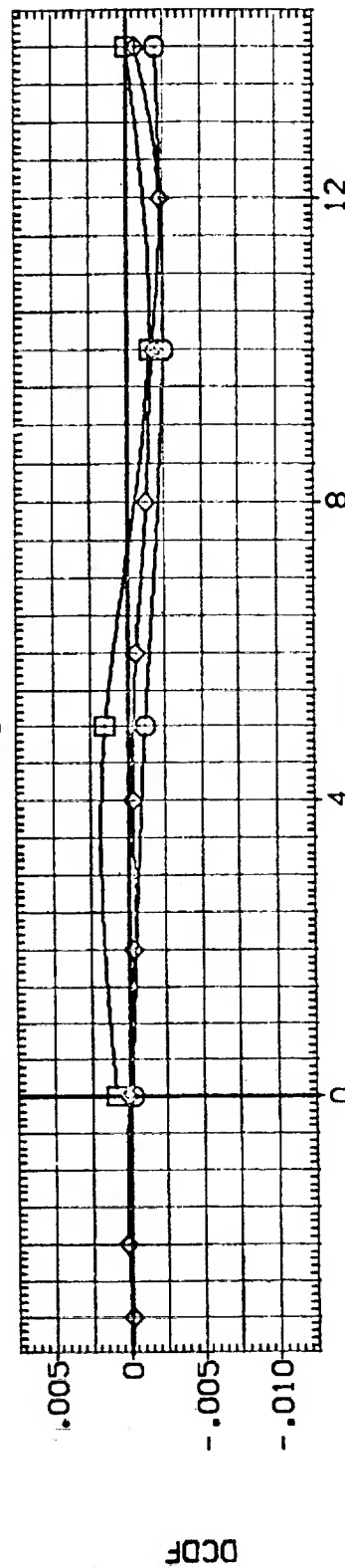
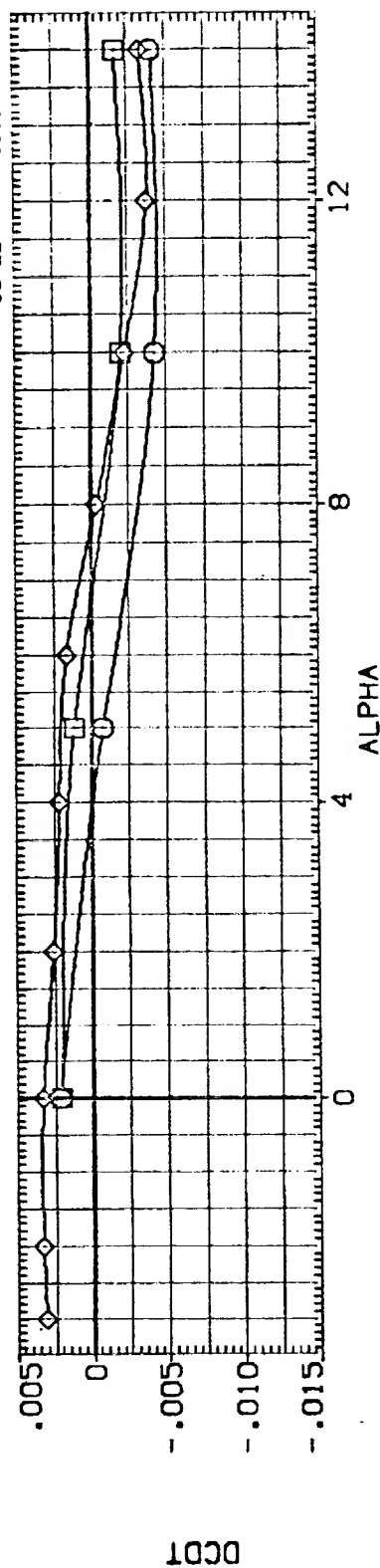


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(MACH = 1.50)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER01.2)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER00.9)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(UER01.3)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0030 IN.
					ZMRP -.3750 IN.
					SCALE .0150

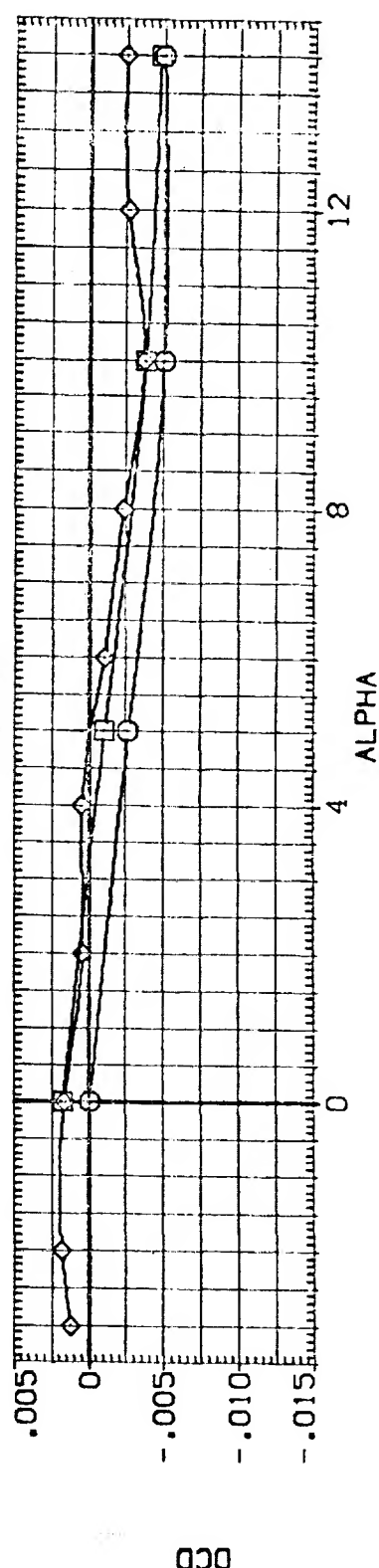
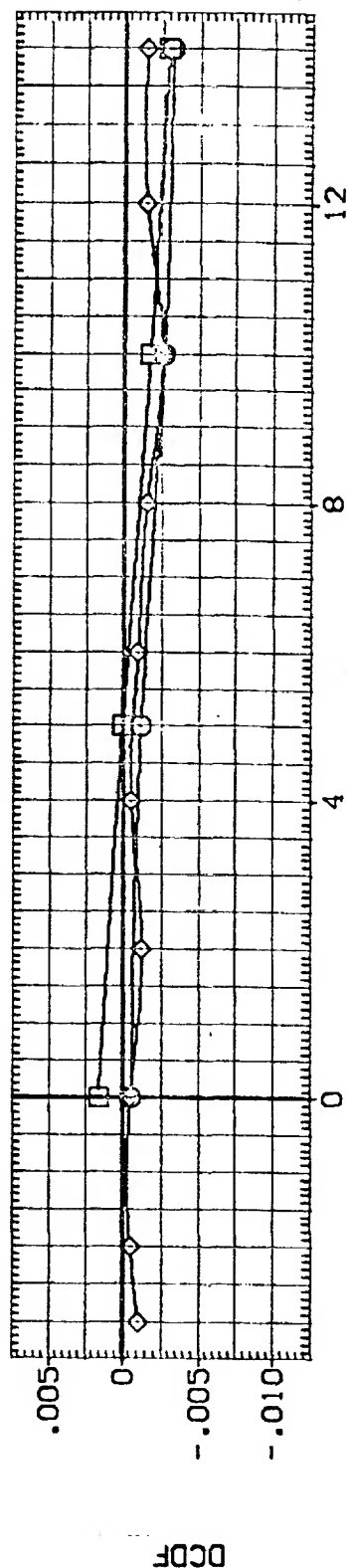
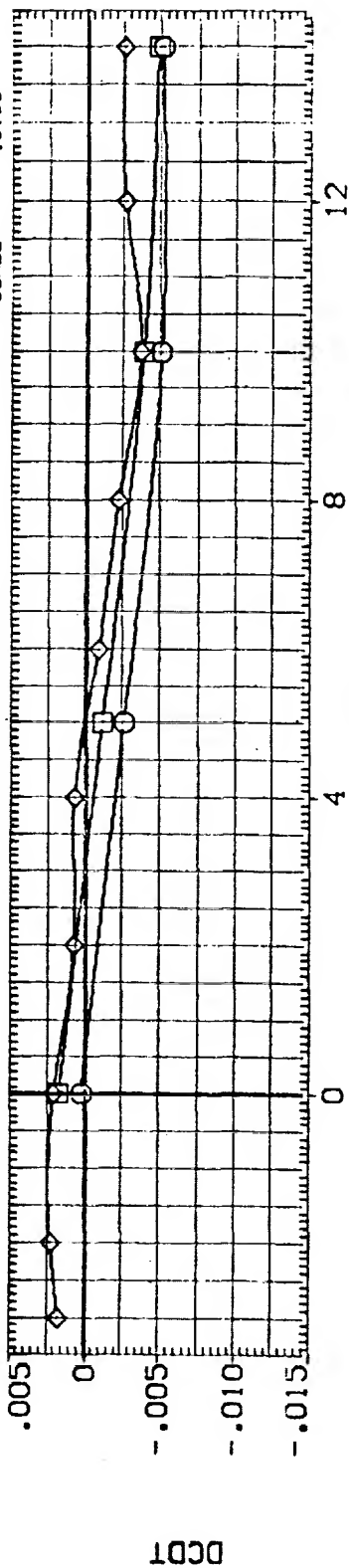


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(JJMACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 QAS9 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

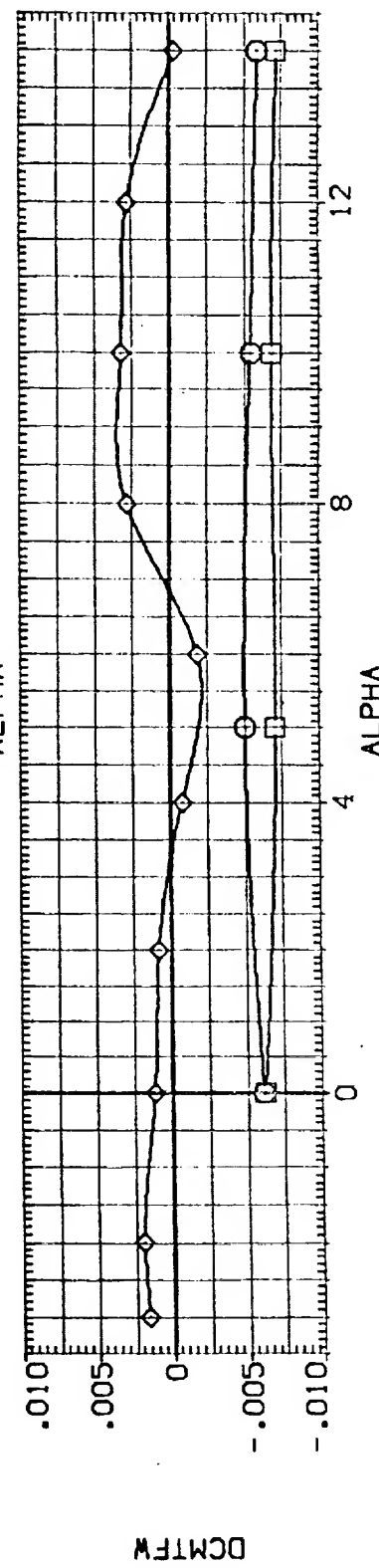
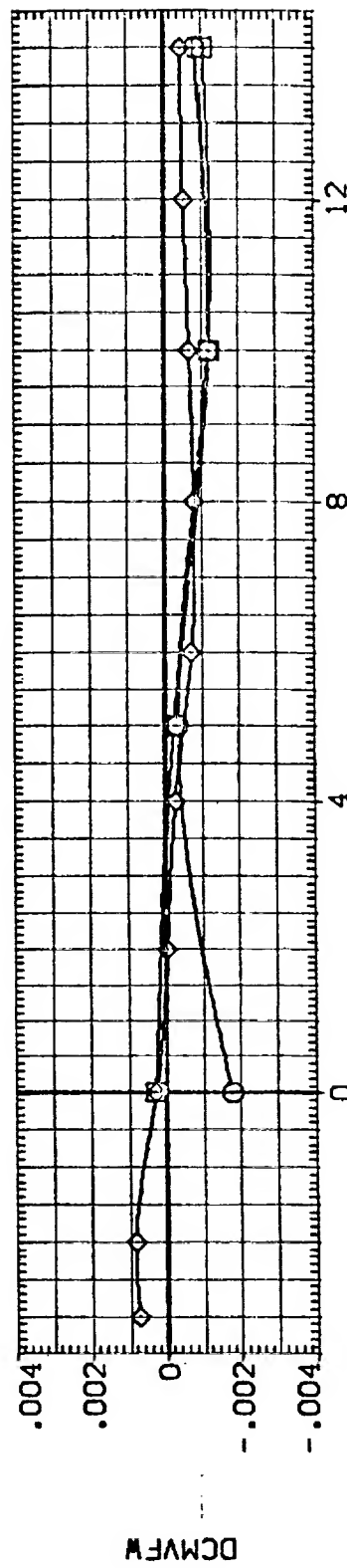
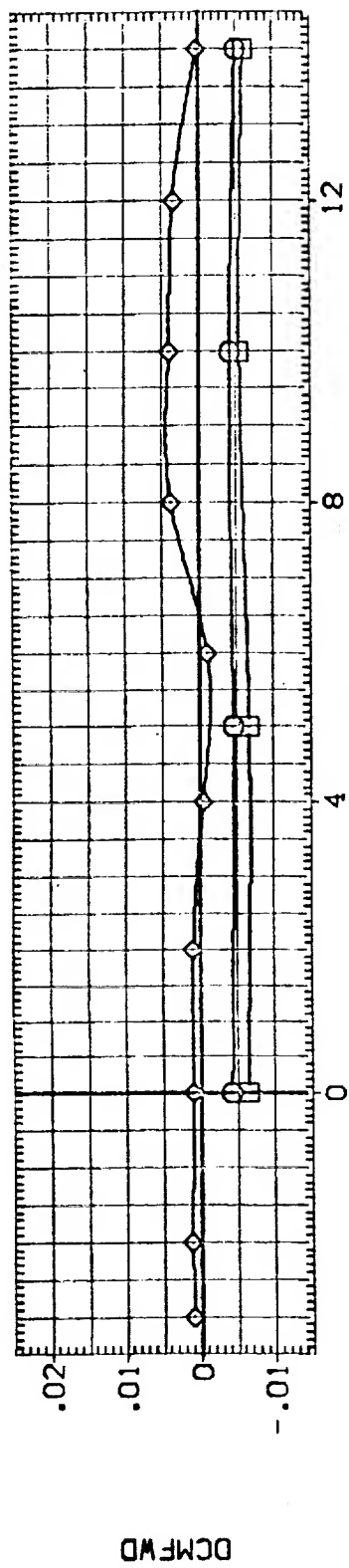





FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012)  ARC 66-709 0A59 0A11A-(RS VB1)+STRUT
 (VER009)  DATA NOT AVAILABLE
 (VER013)  ARC 66-709 0A59 0A11A-(RS VB1)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5835 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

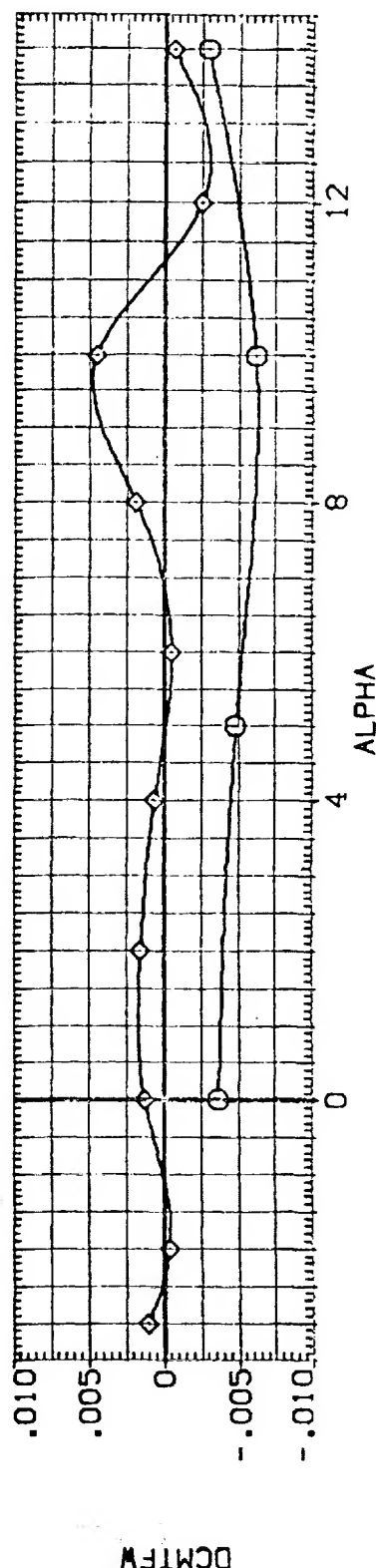
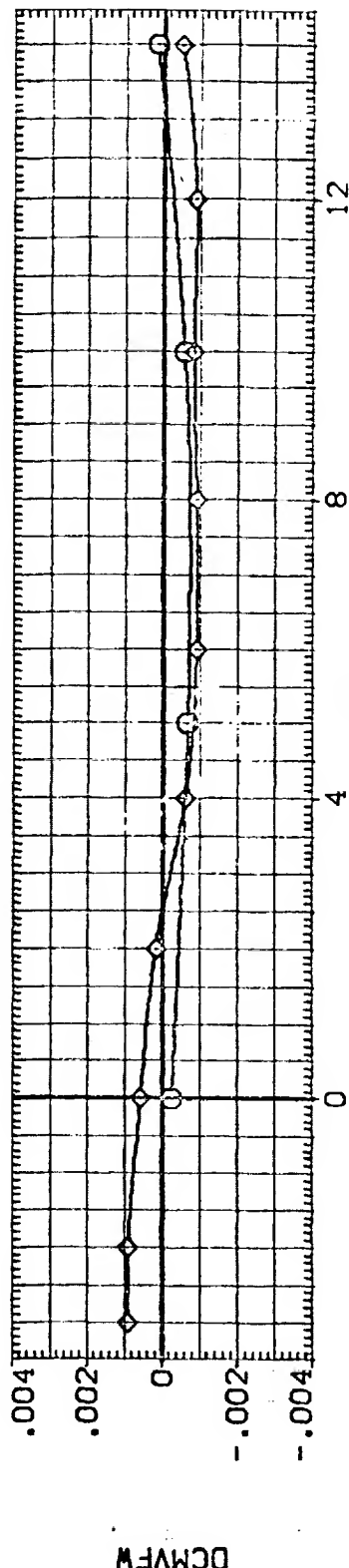
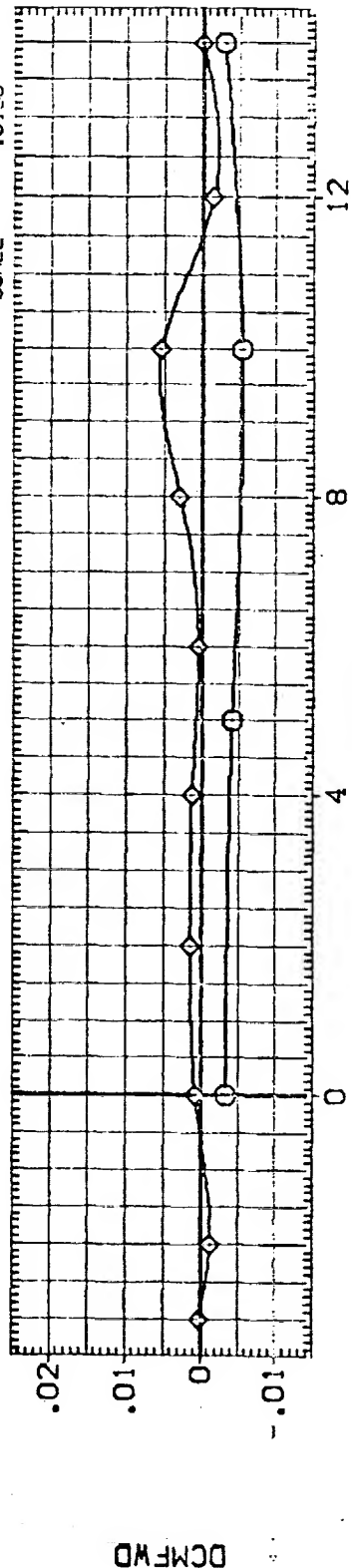


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 OAS9 DA11A-(RS V8)+STRUT
 (VER008) DATA NOT AVAILABLE
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6755 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

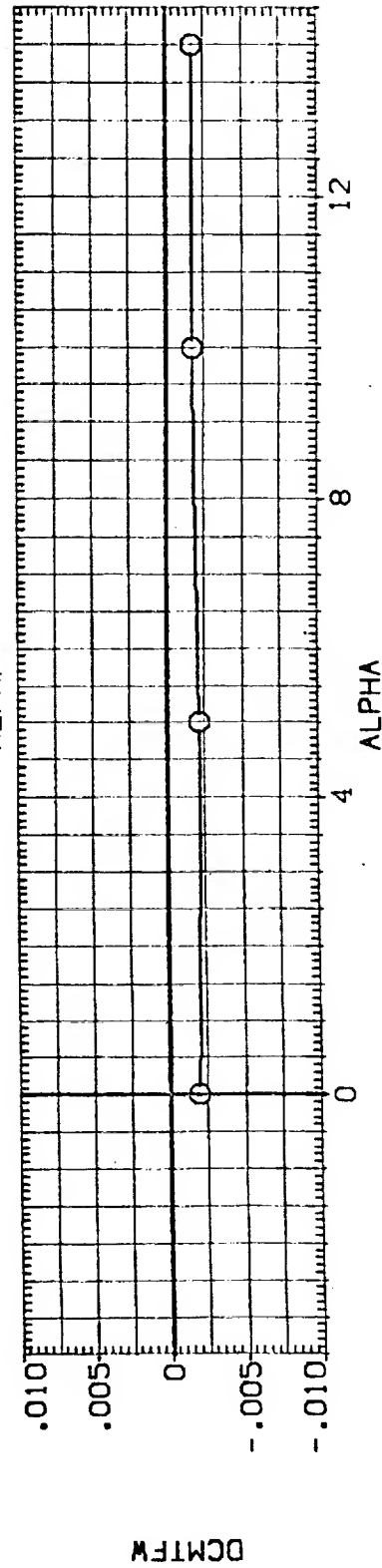
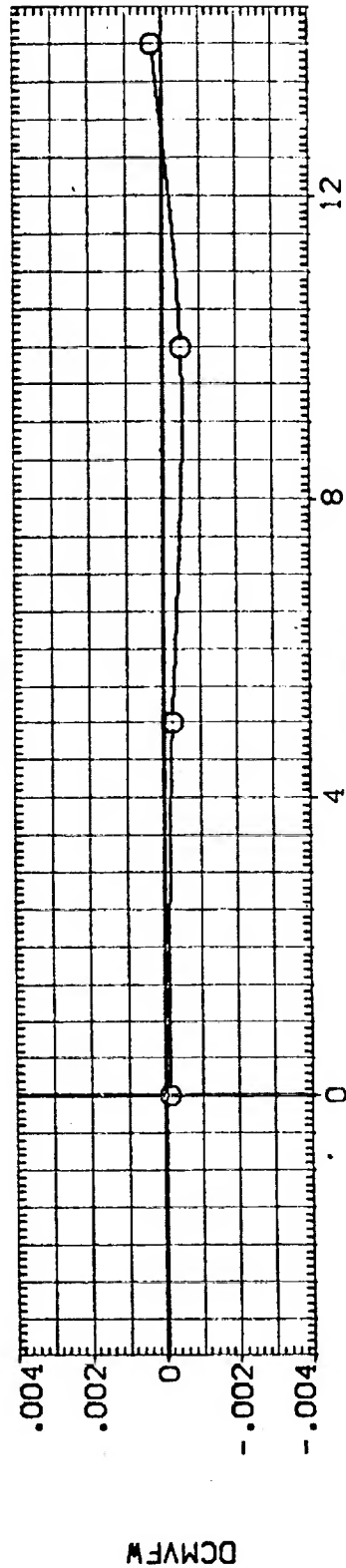
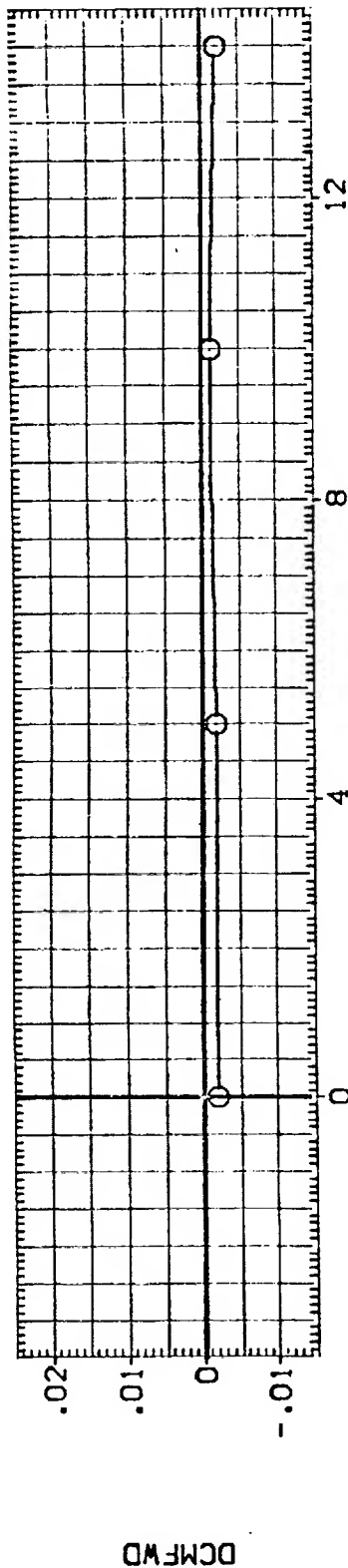


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 QAS9 0A11A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -3.50 IN.
					SCALE .0150

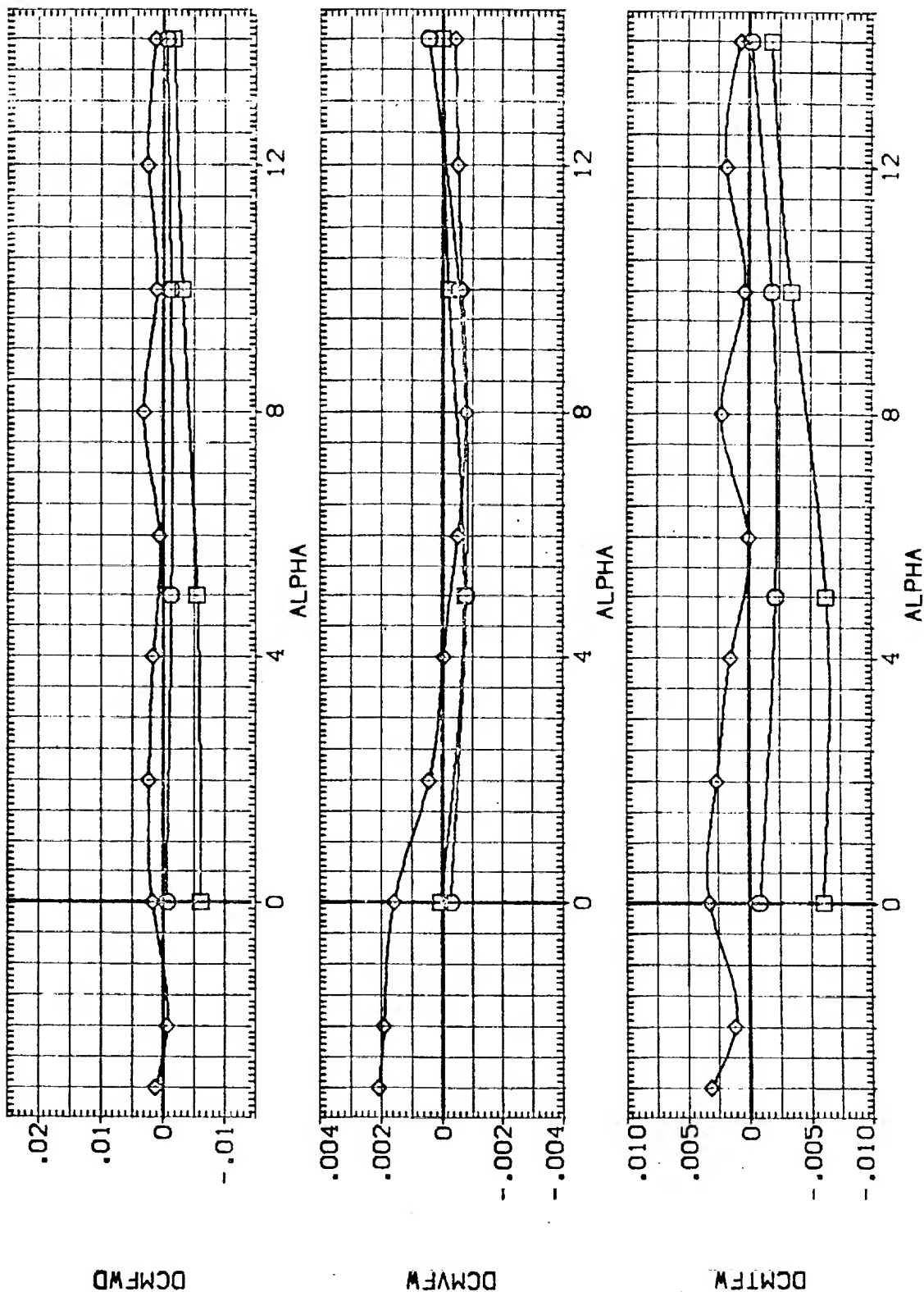


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(0)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 DASS CA11A-(RS V8)*STRUT
 (VER009) DATA NOT AVAILABLE
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.655 IN.
 YMRP .000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

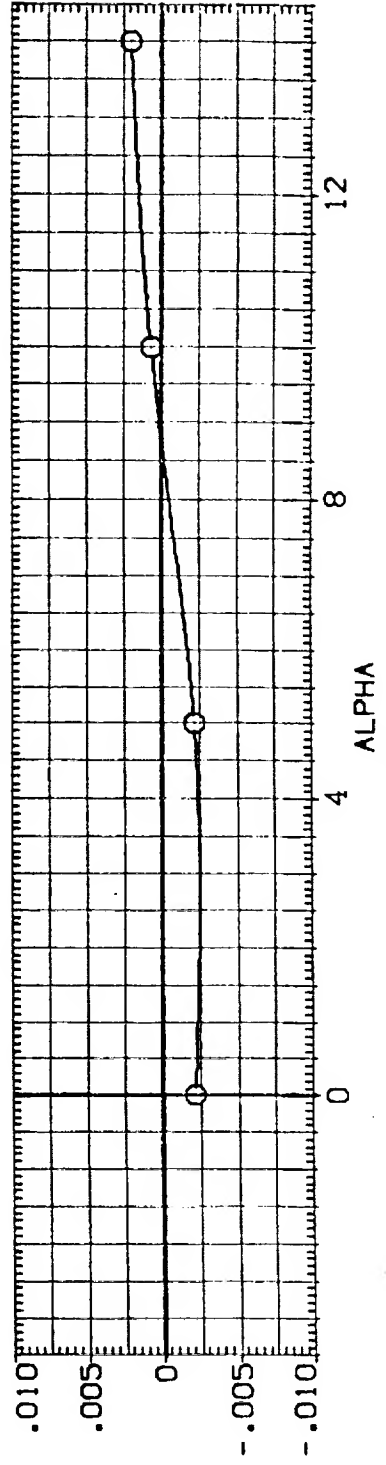
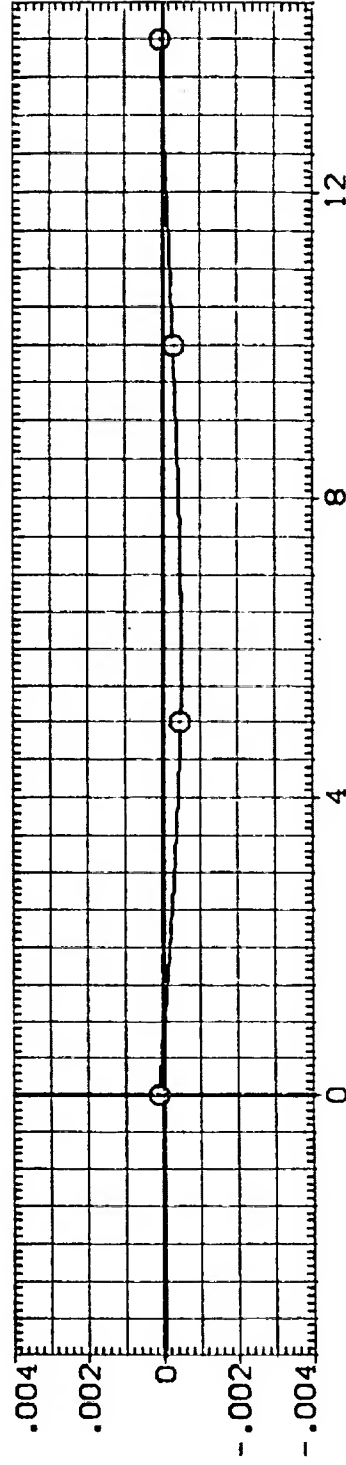
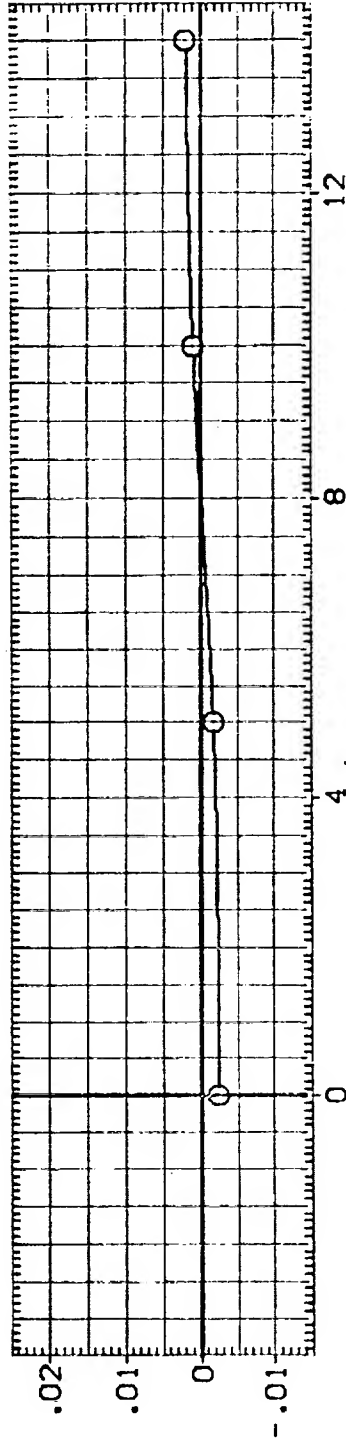


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

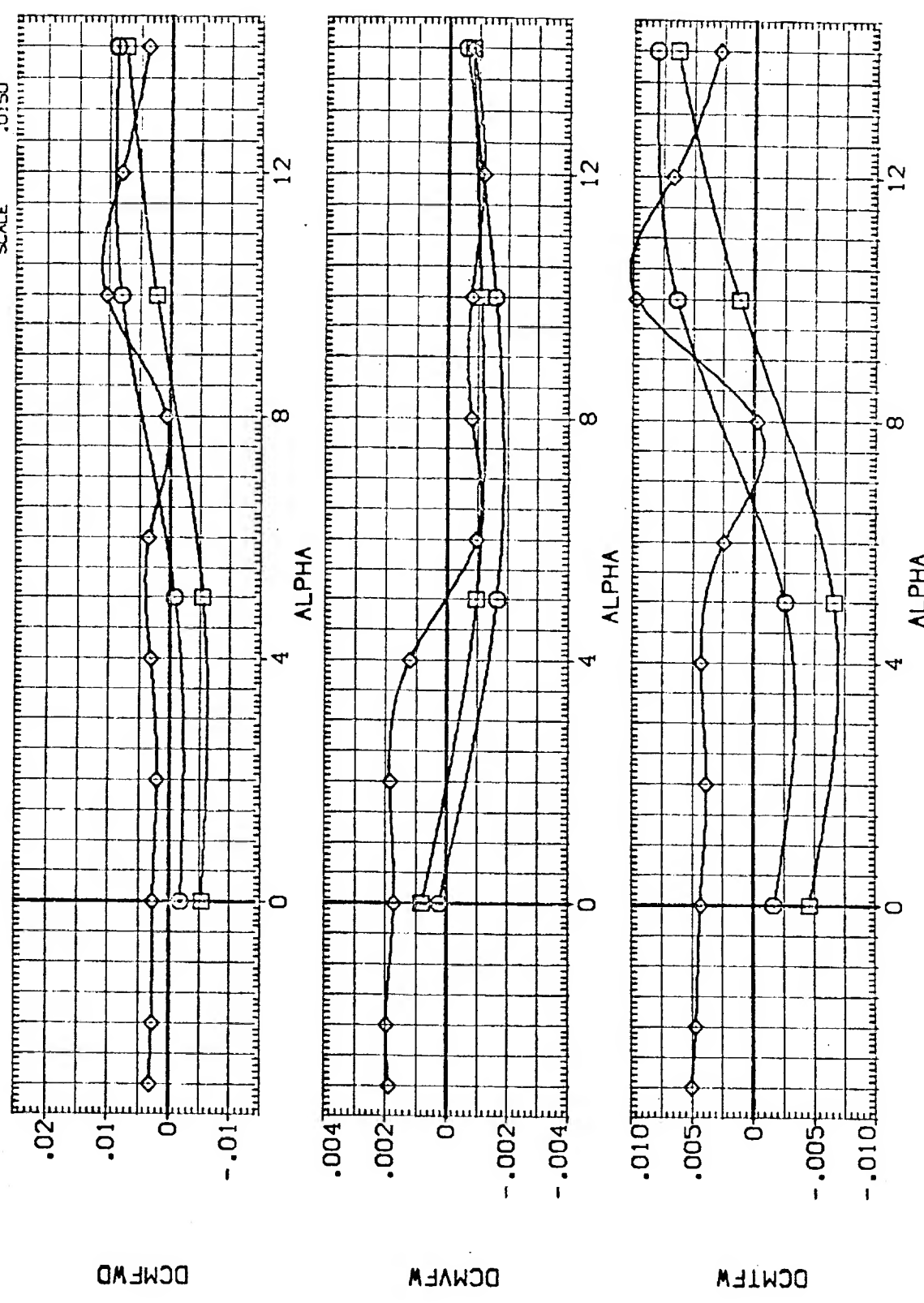





FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL:   
 CONFIGURATION DESCRIPTION
 ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF -6053 SQ.FT.
 LREF -5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

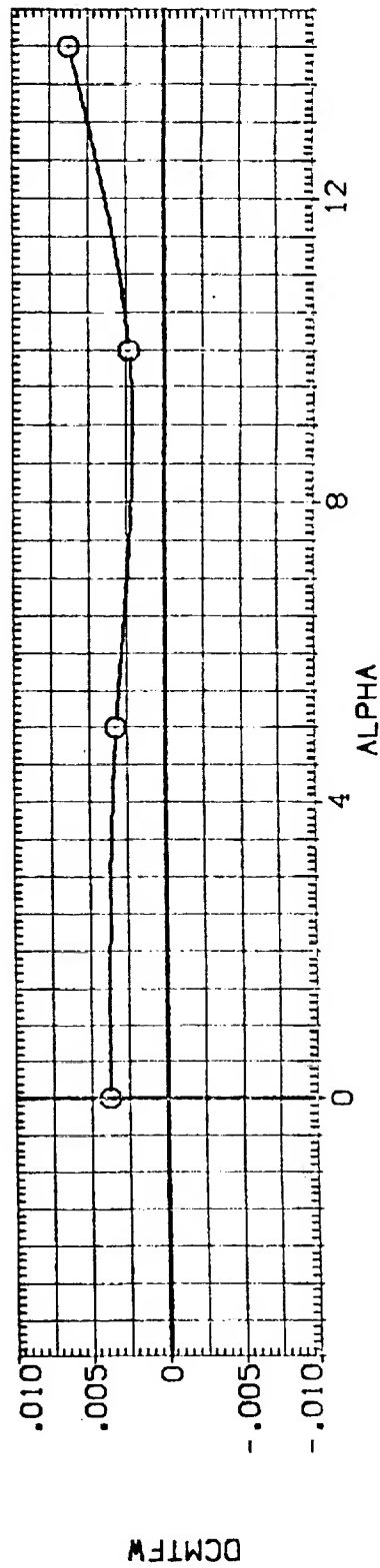
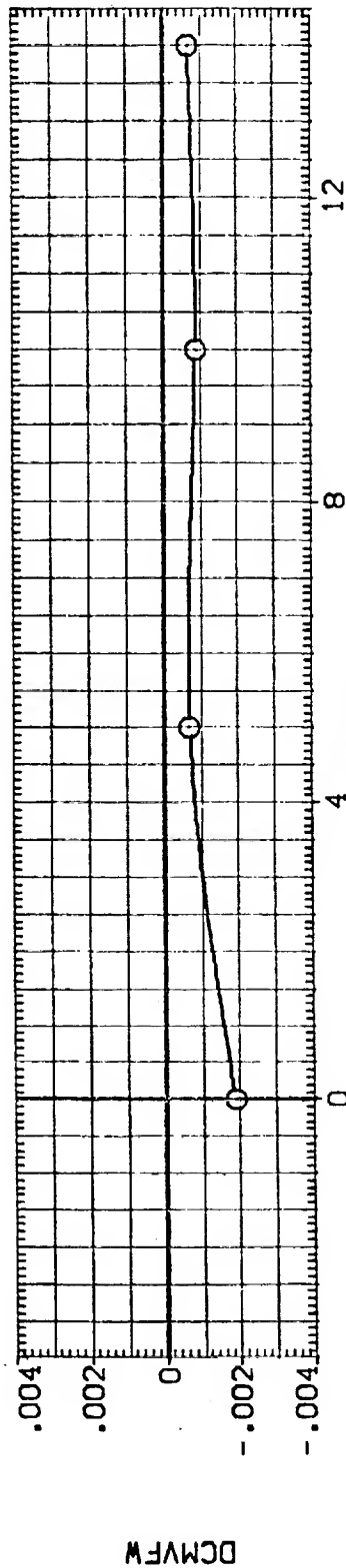
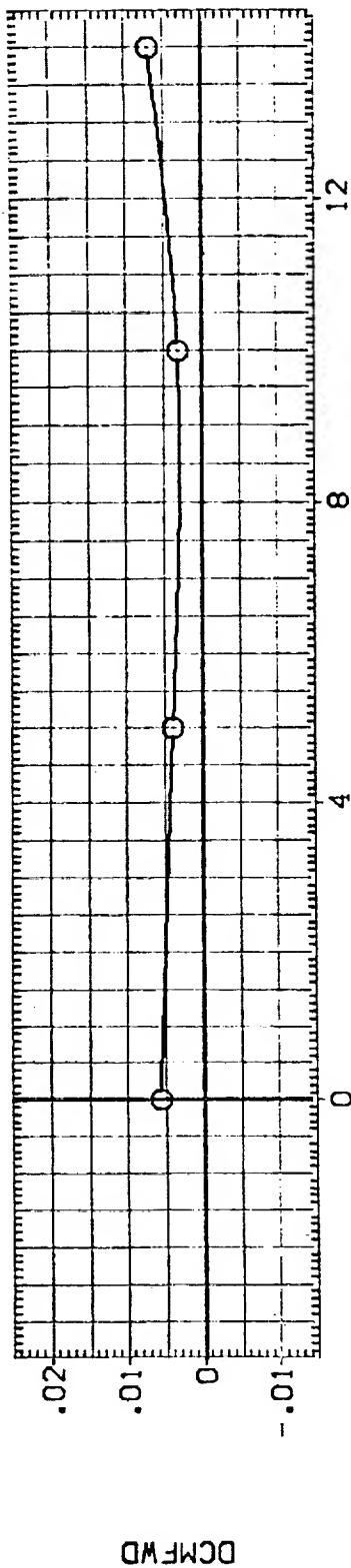


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N2A RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

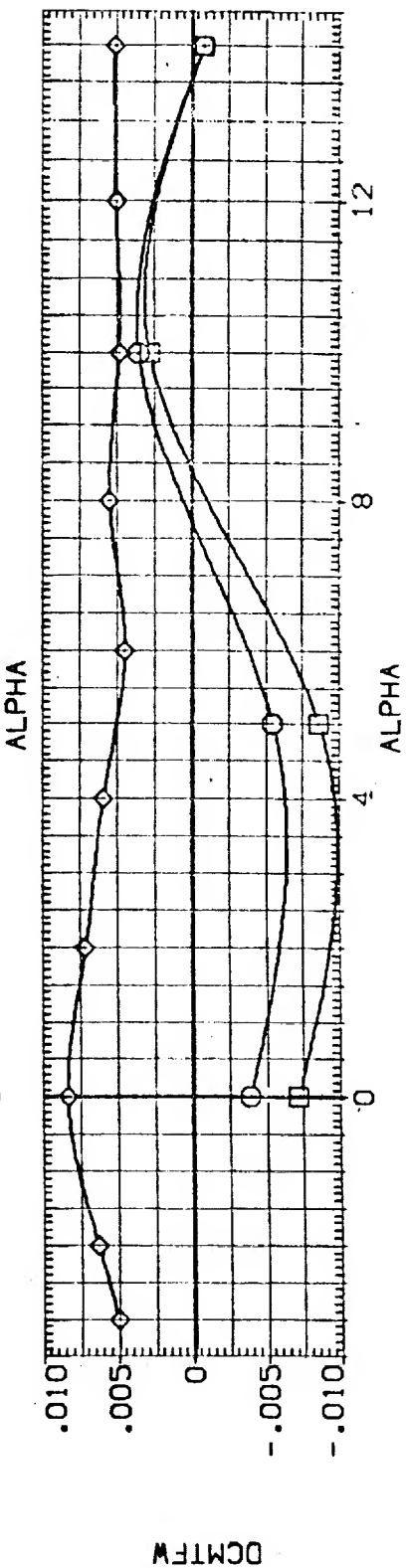
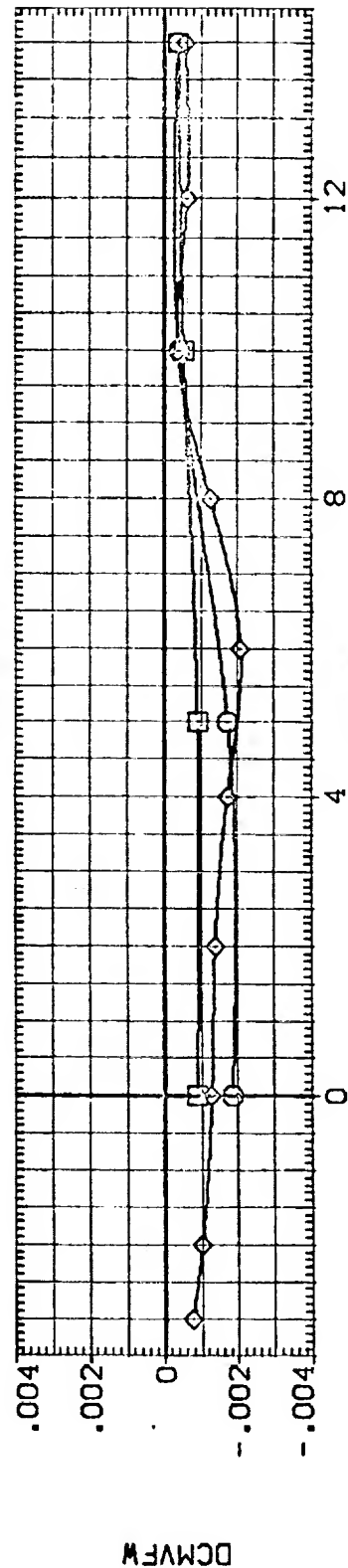
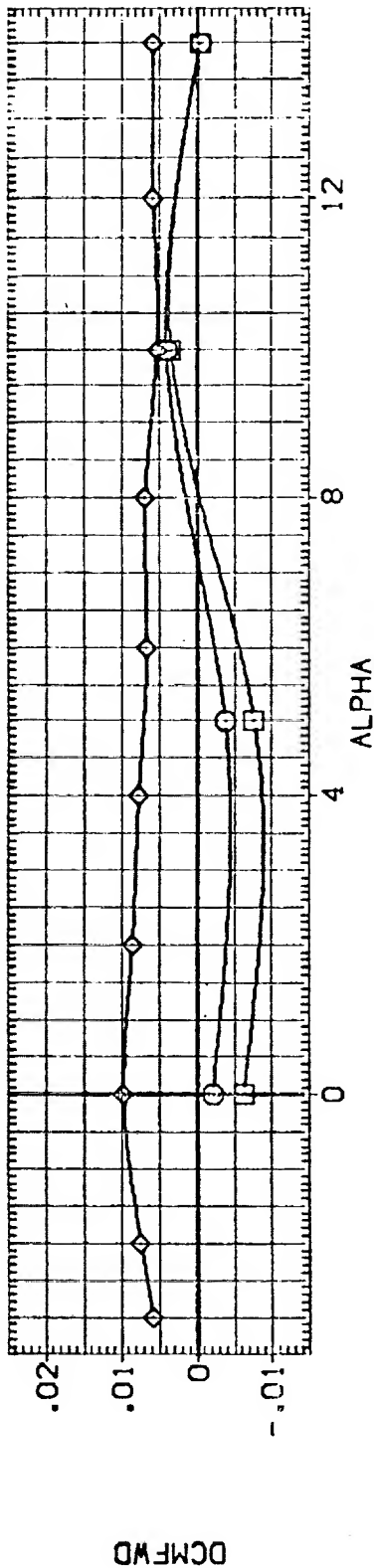


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 68-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO09)	ARC 68-709 OAS9 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VERO13)	ARC 68-709 OAS9 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

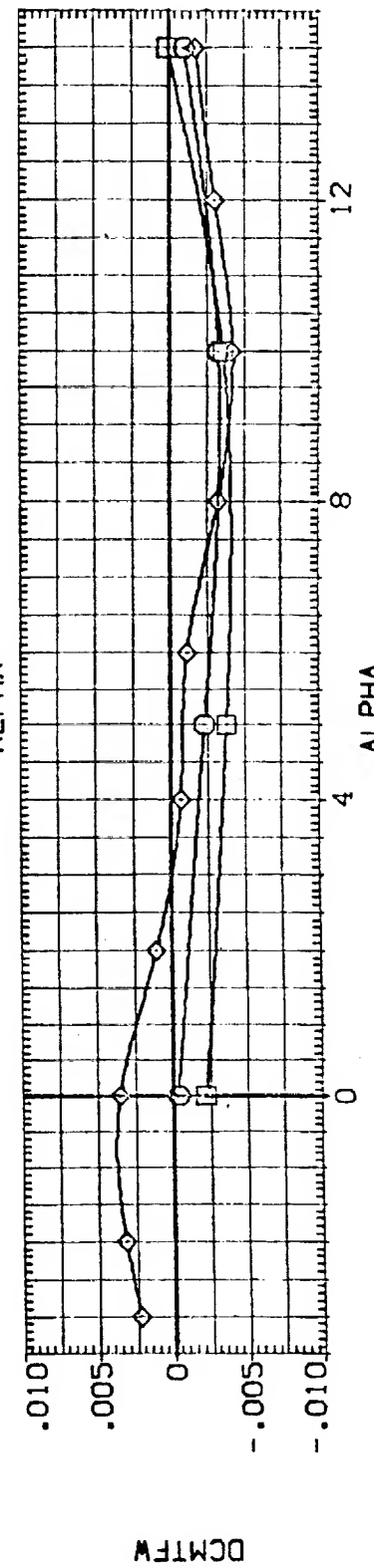
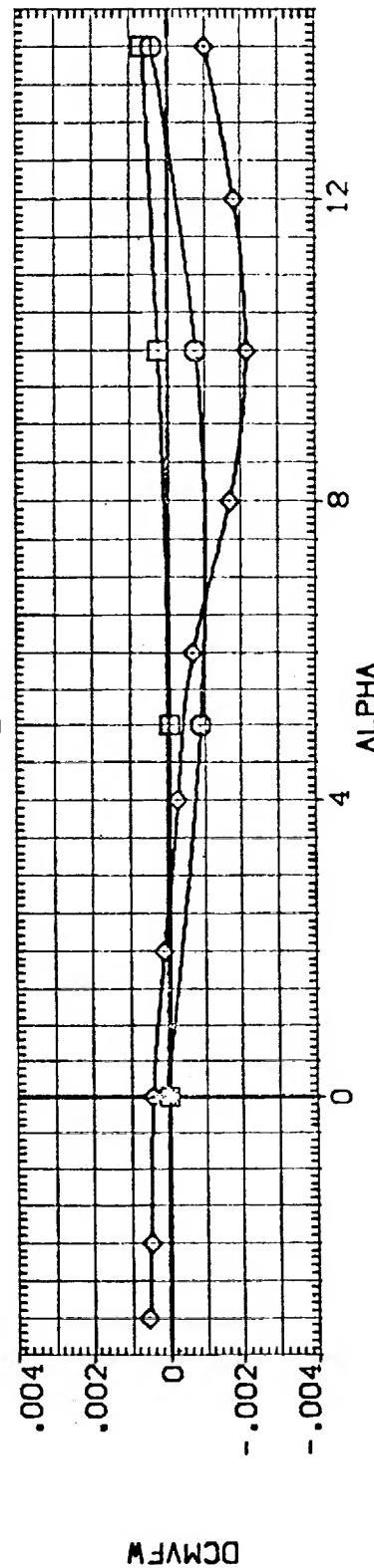
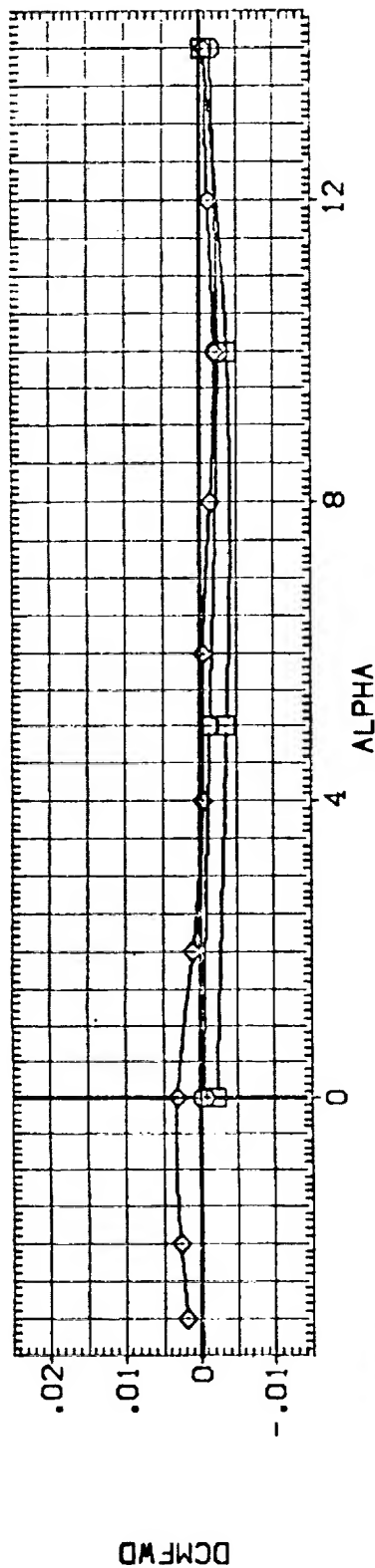


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS
(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[VER012]	ARC 66-709 D459 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
[VER009]	ARC 66-709 D459 DA11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
[VER013]	ARC 66-709 D459 DA11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE 0.50

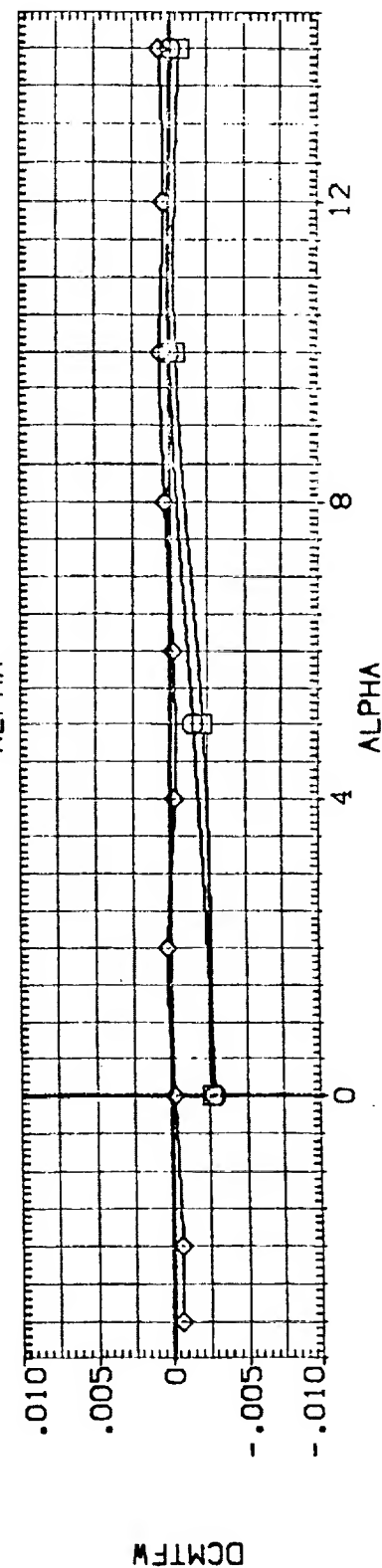
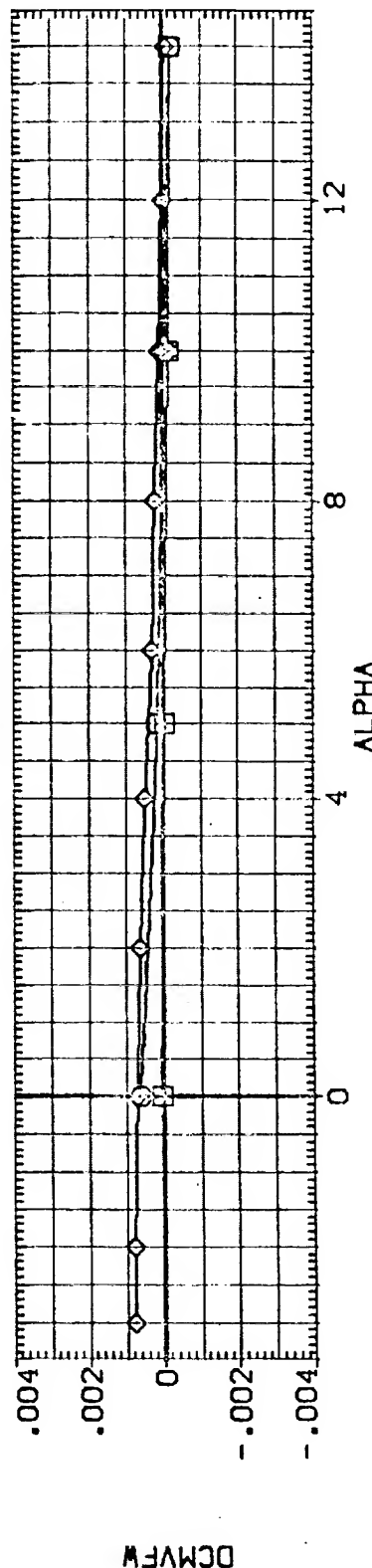
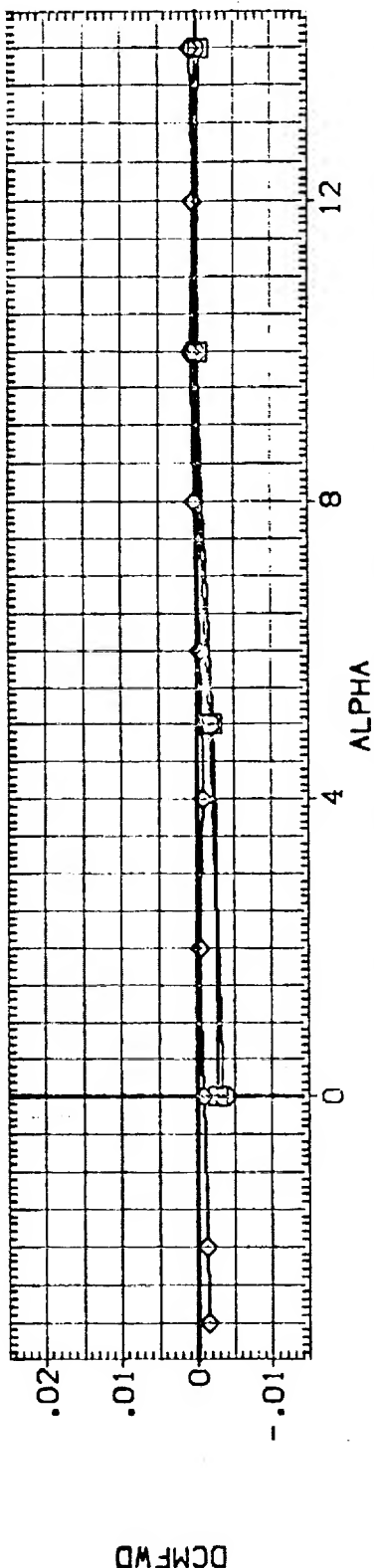


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(JJMACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASH DA11A-(RS VB)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 DASH DA11A-(N24 RS VB)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASH DA11A-(RS VB)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6755 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

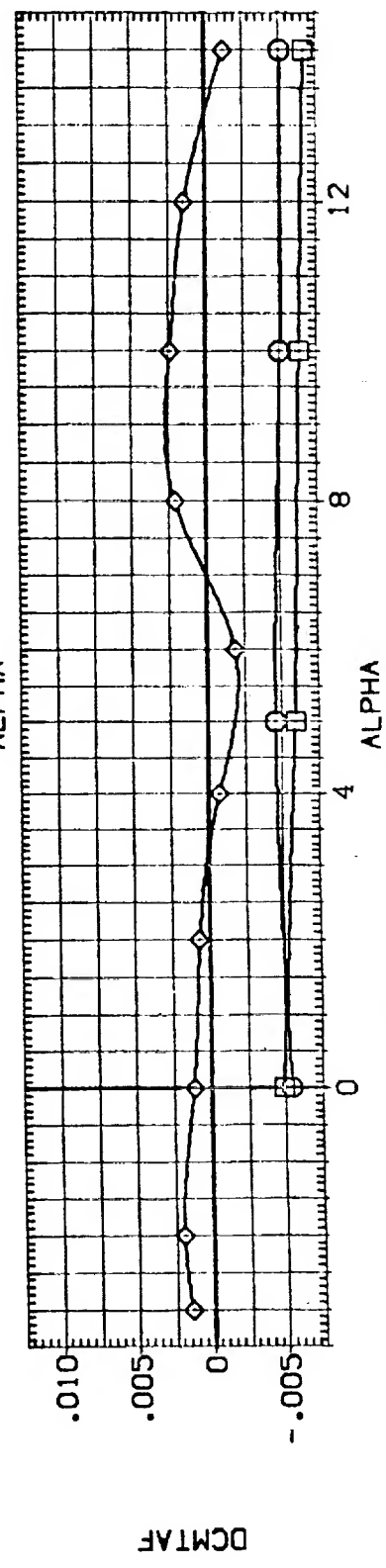
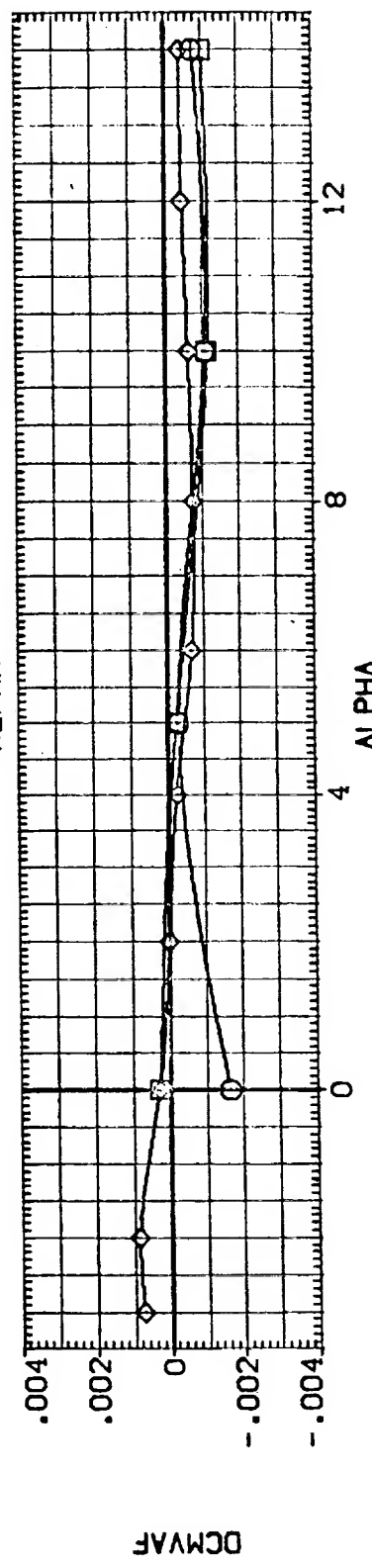
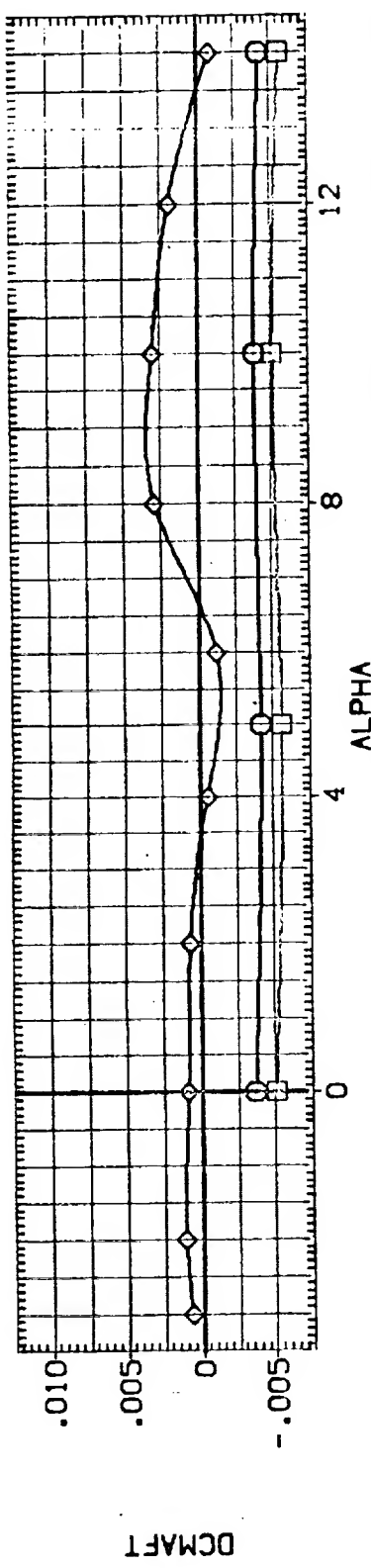


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT
 (VER009) DATA NOT AVAILABLE
 (VER013) ARC 66-709 DAS9 DA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

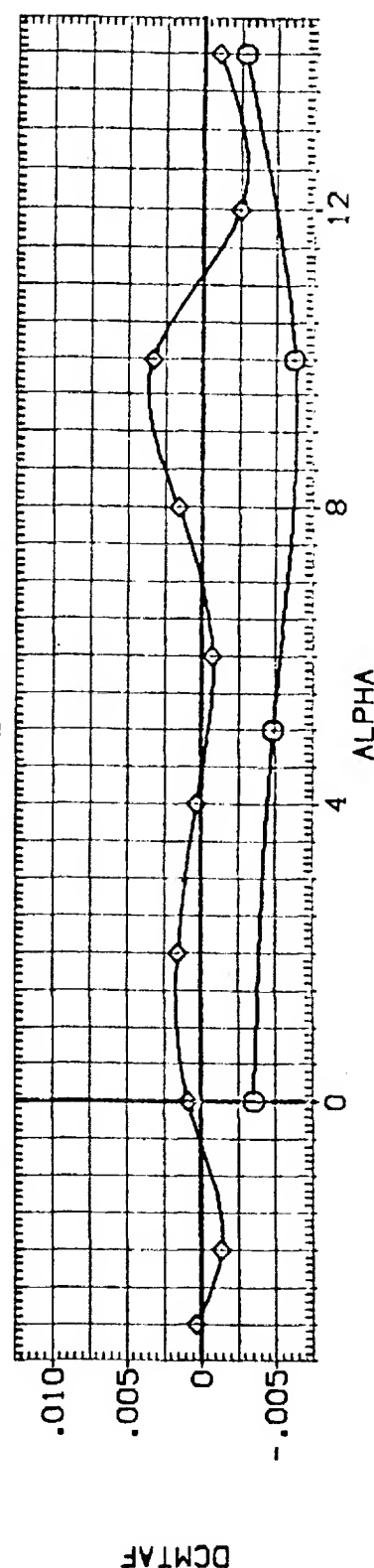
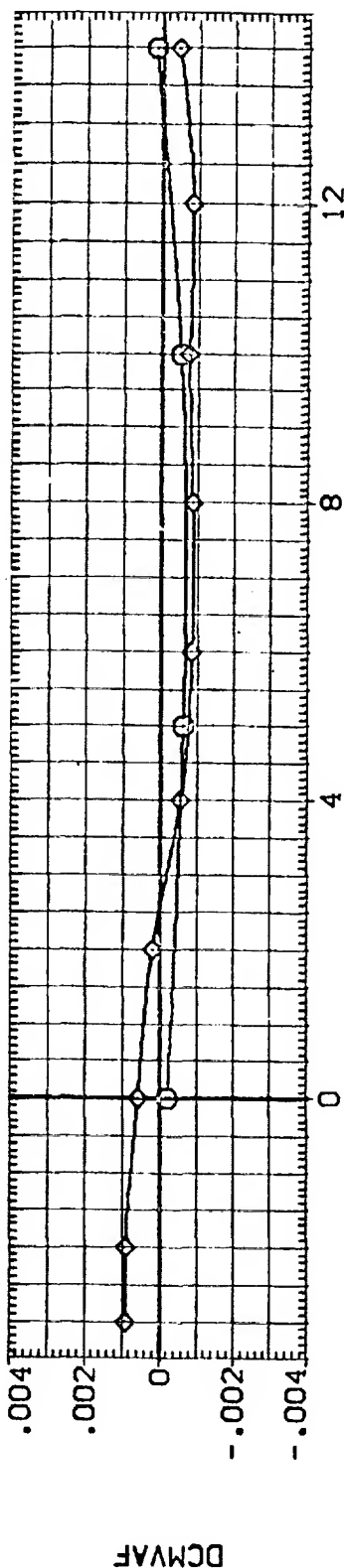
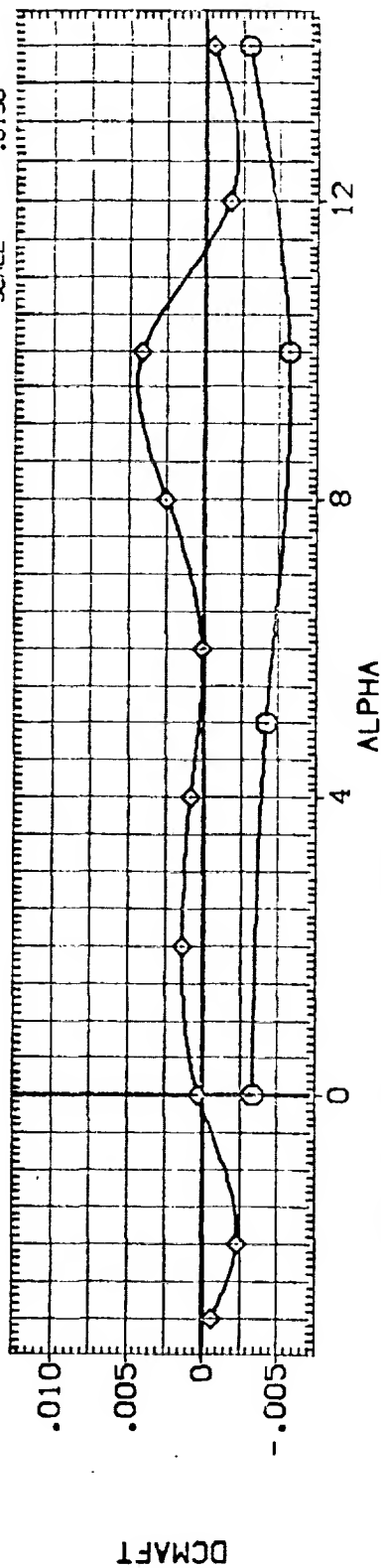


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {VER012} ARC 66-709 0A59 0A11A-(RS V8)-STRUT
 {VER009} DATA NOT AVAILABLE
 {VER013} DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

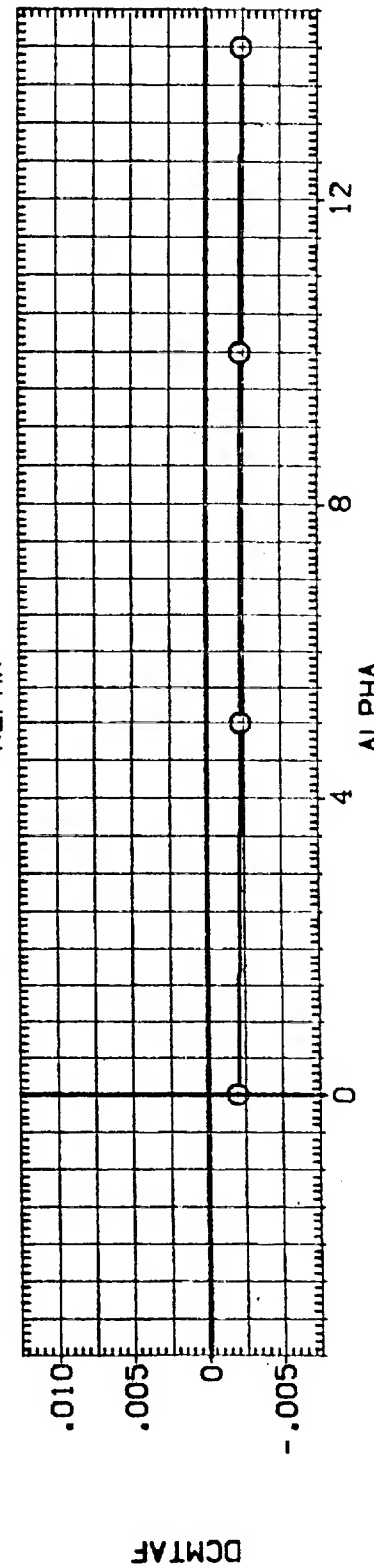
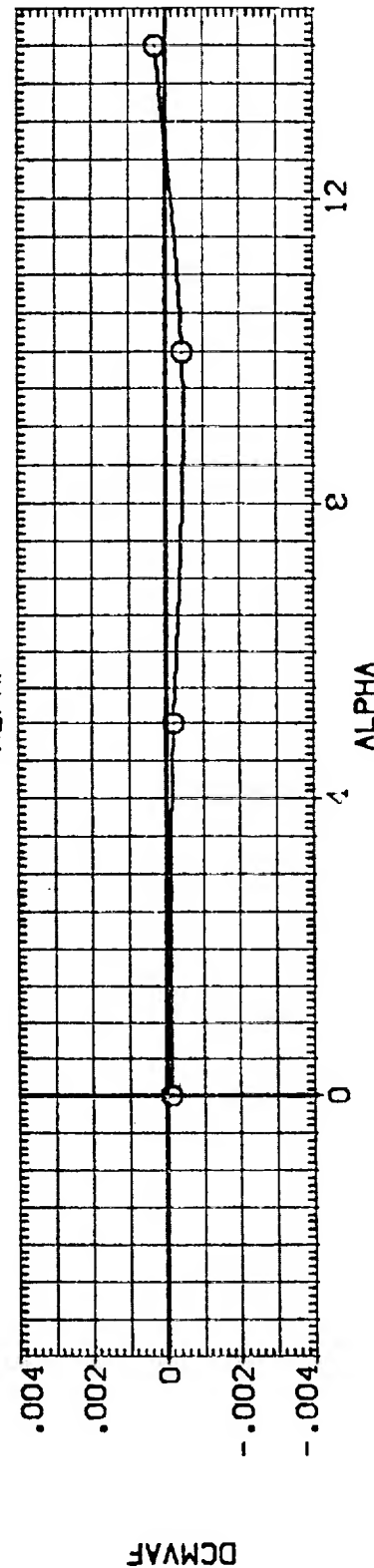
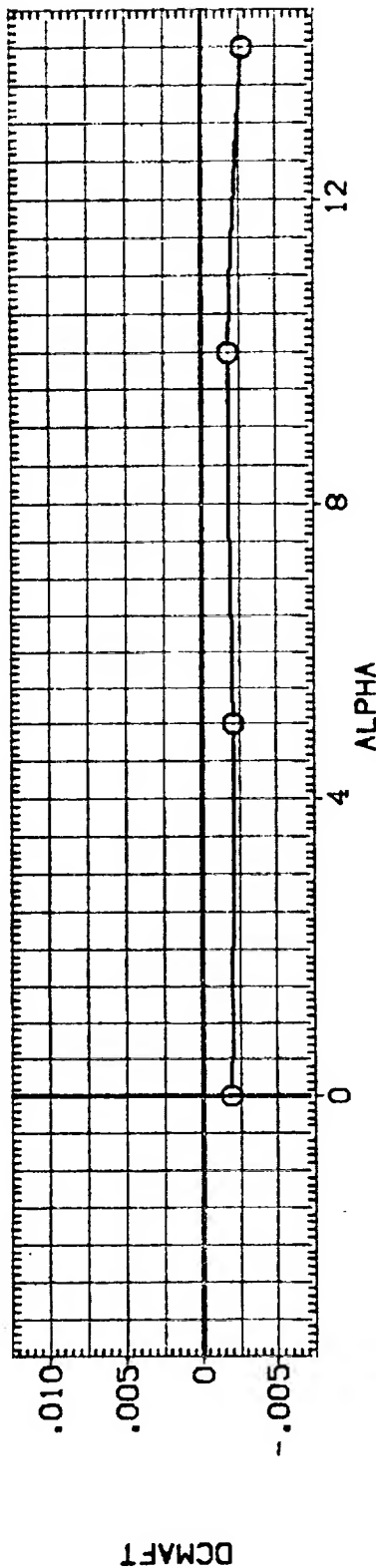


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .5053 50.FT.
(VER009)	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DA59 DA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

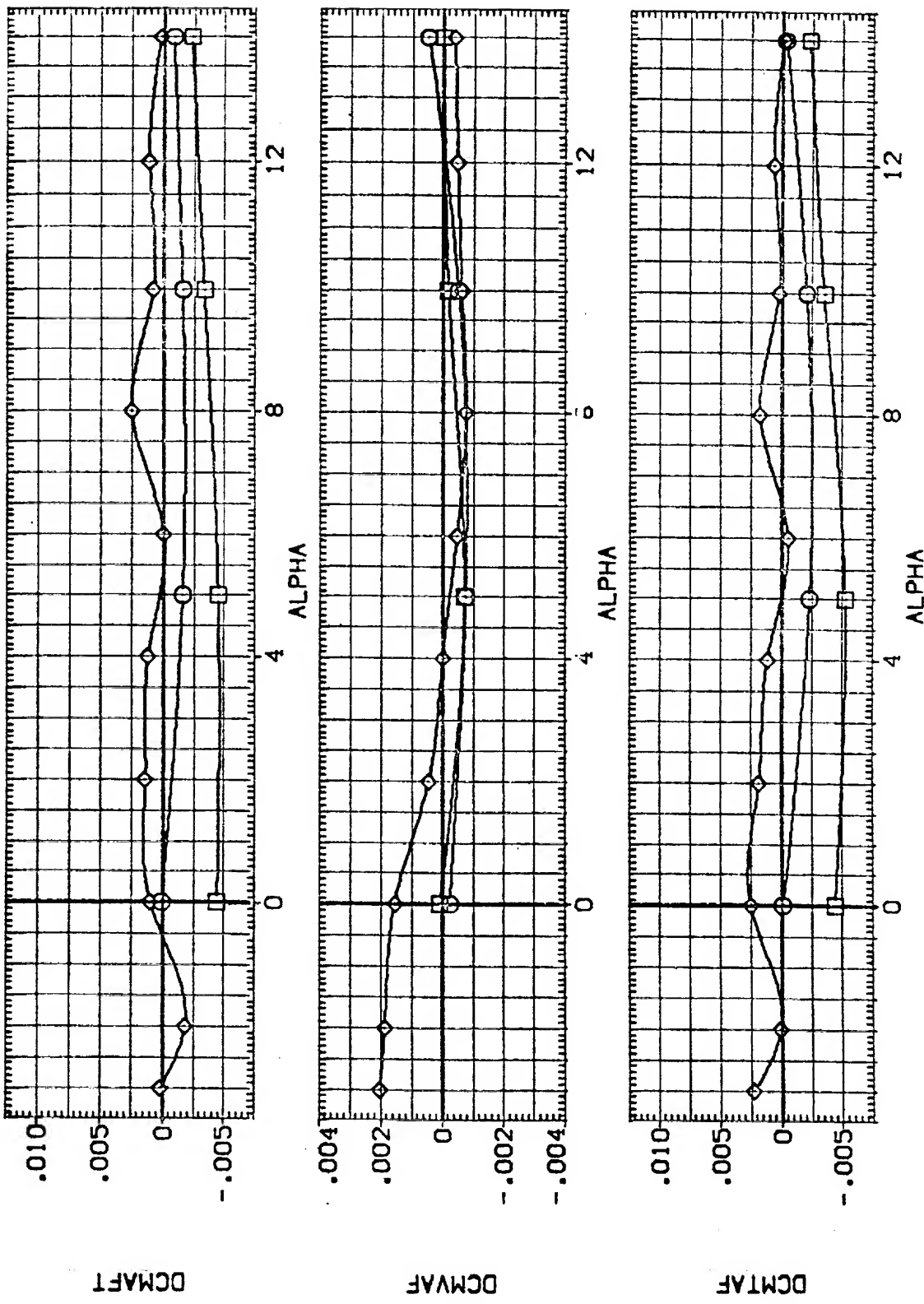


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

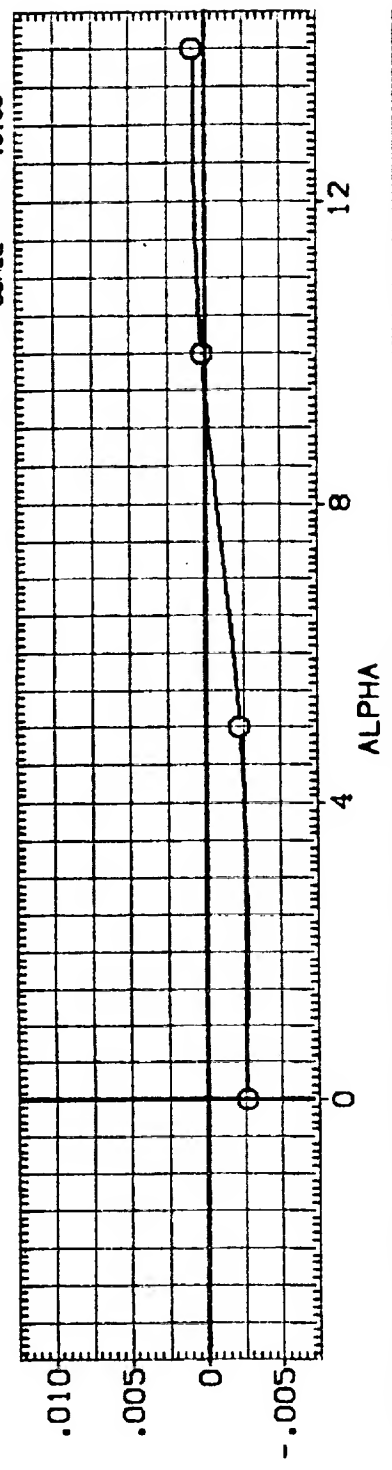
(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {VER012} ARC 66-709 QAS9 CA11A--(RS-V8)+STRUT
 {VER009} DATA NOT AVAILABLE
 {VER013} DATA NOT AVAILABLE

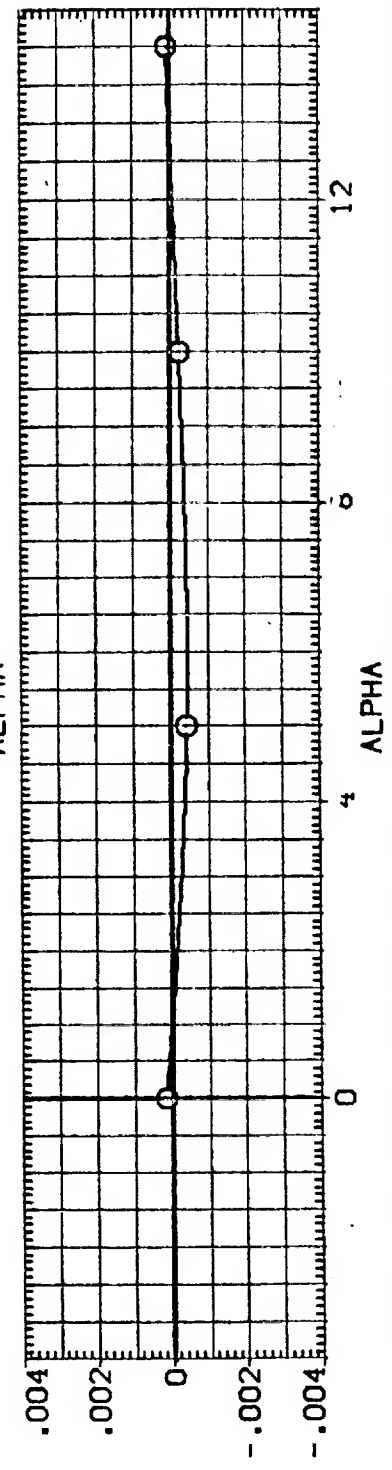
BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

DCMFT



DCMVAF



DCMTAF

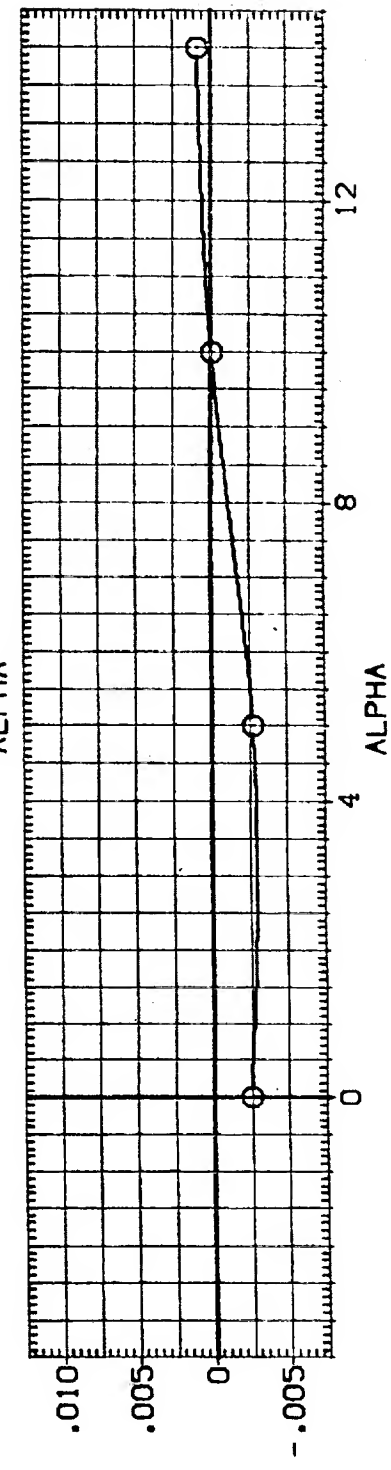


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 QAS9 CA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 CA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

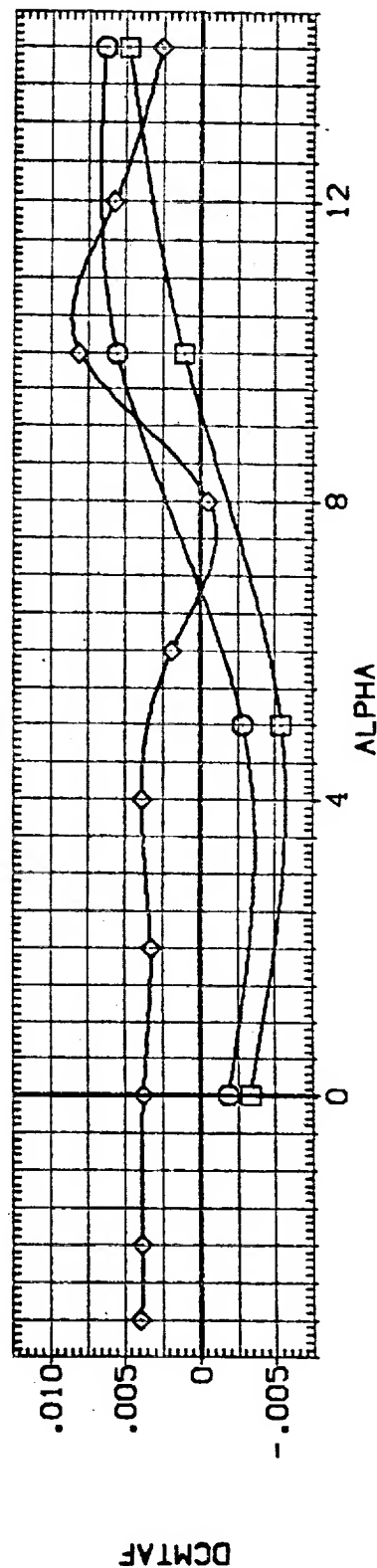
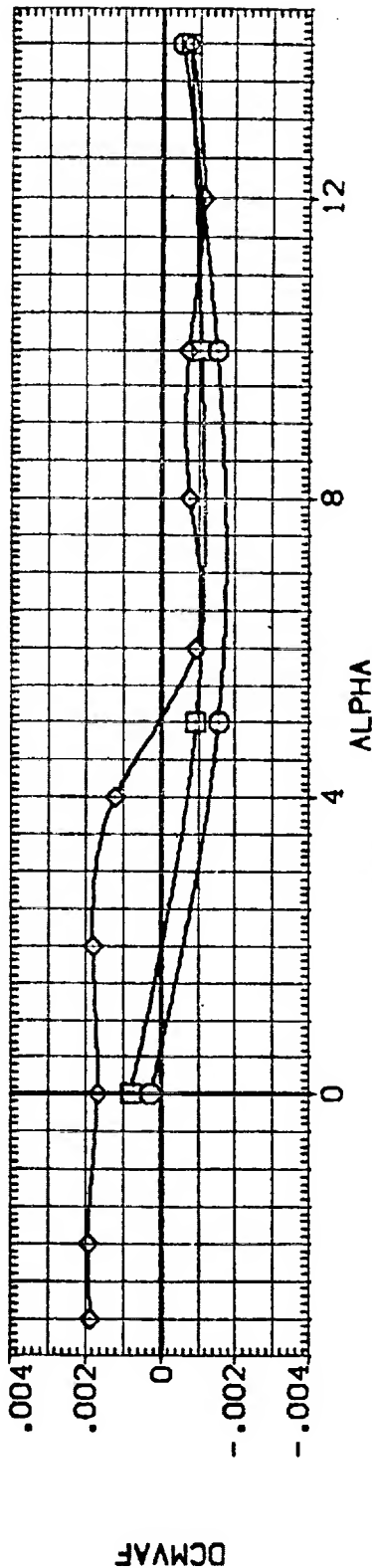
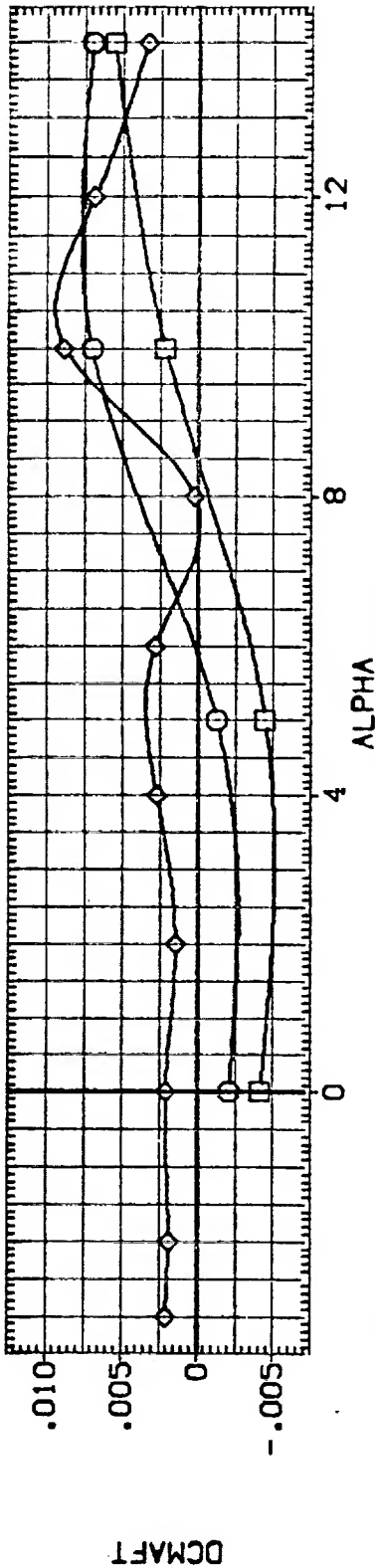


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VER012) ARC 66-709 OAS9 0A11A-(RS V81)-STRUT

(VER009) DATA NOT AVAILABLE

(VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

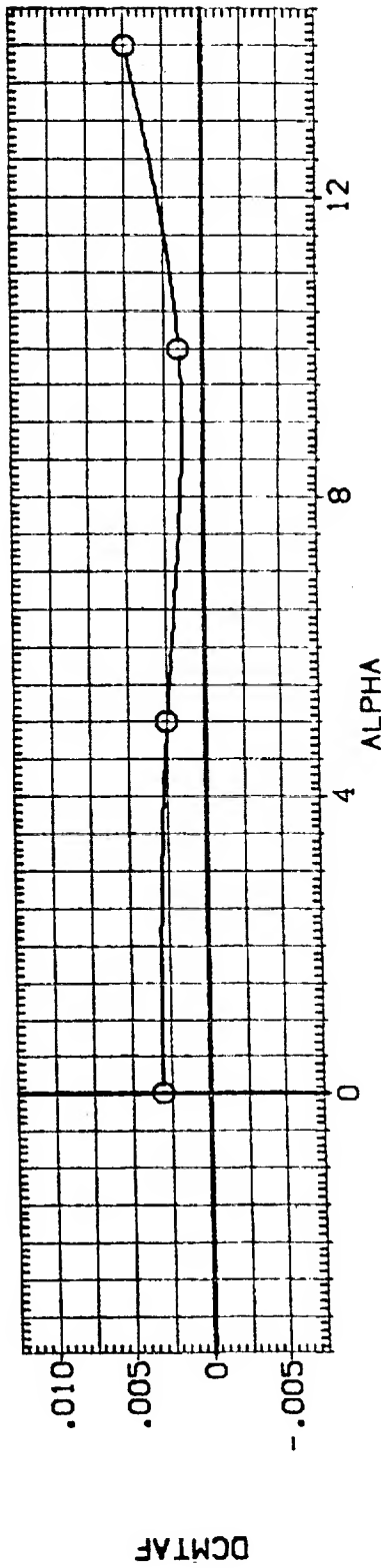
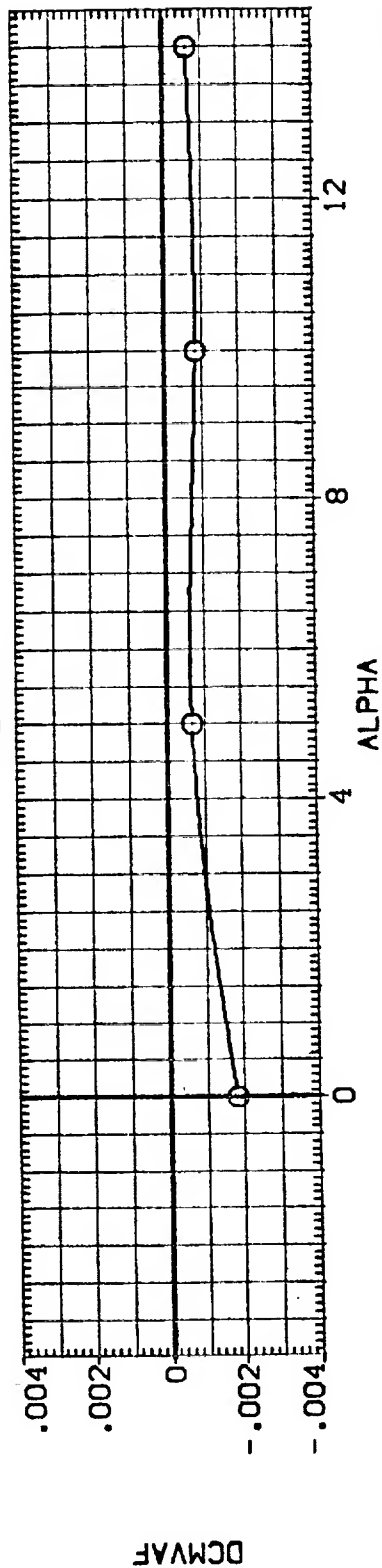
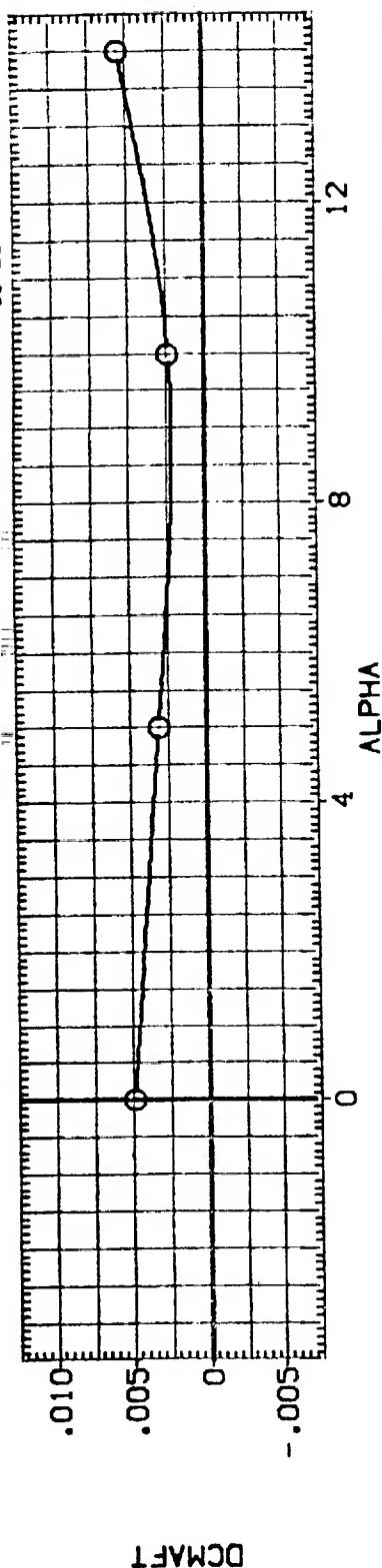


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

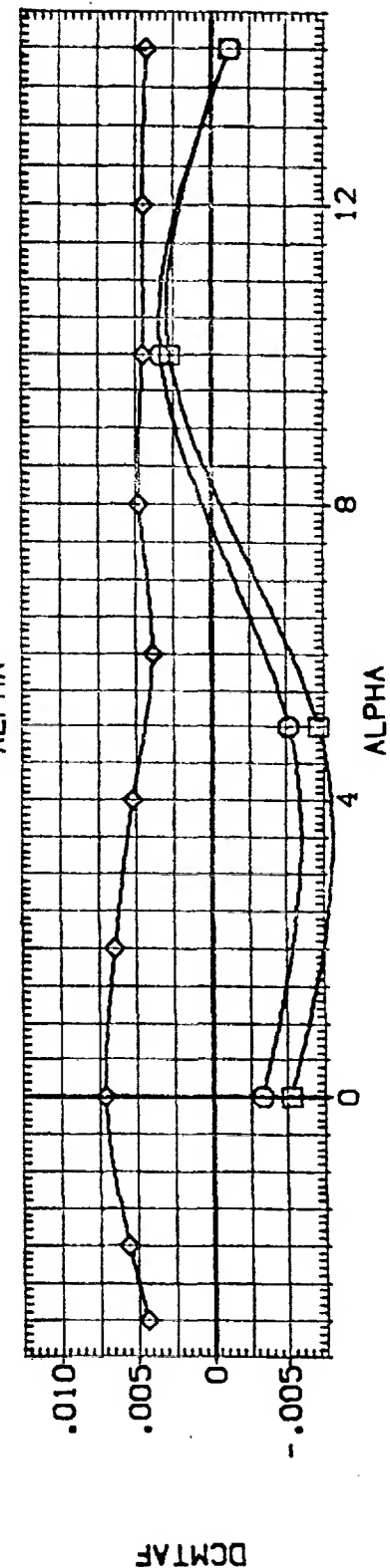
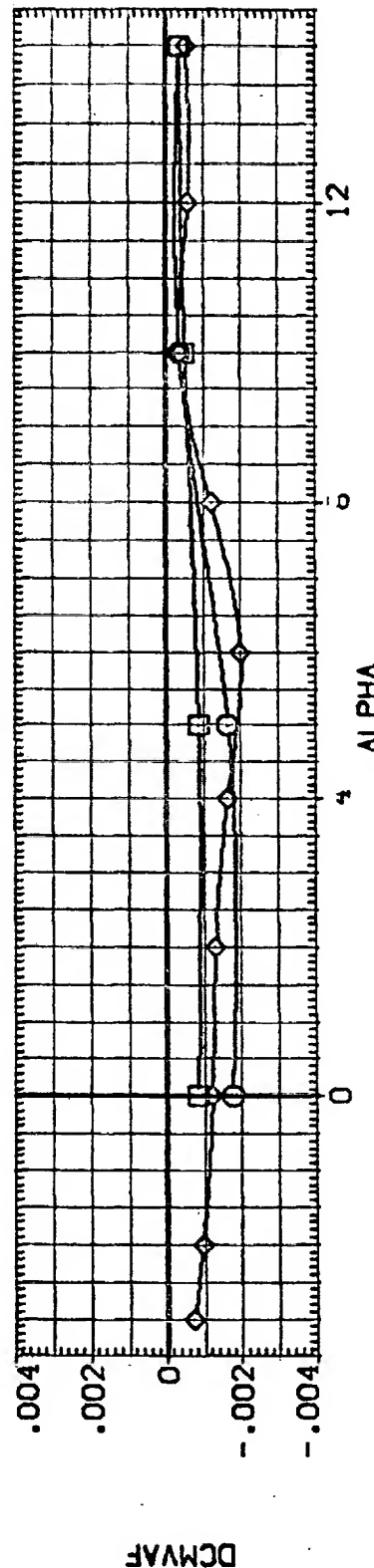
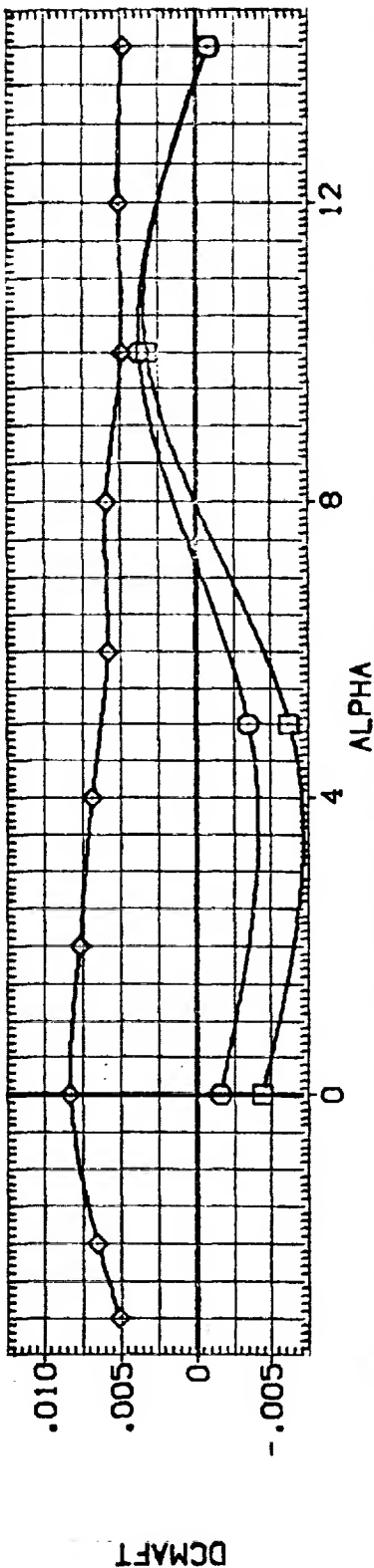


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50 FT.
{VER009}	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{VER013}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

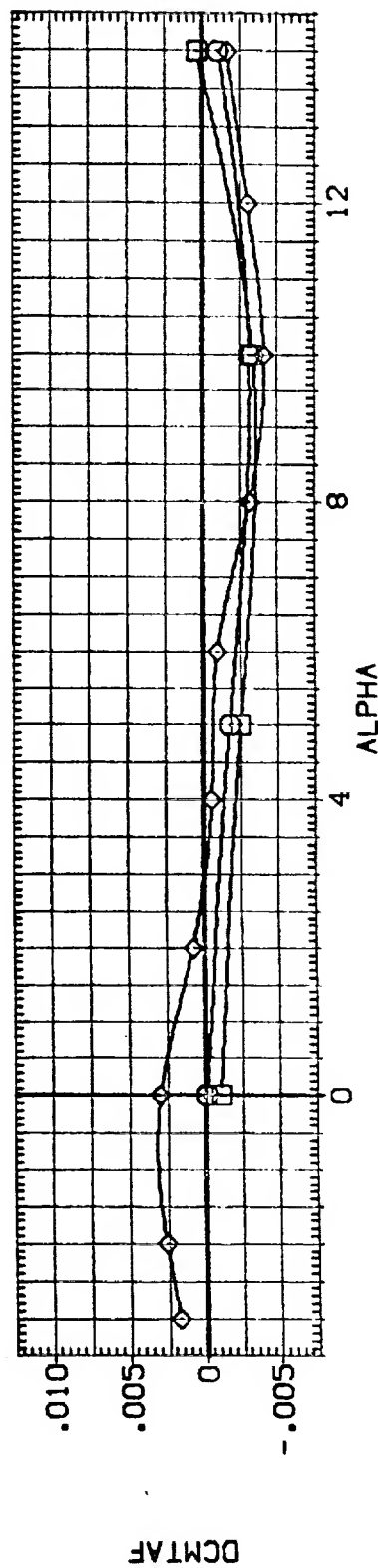
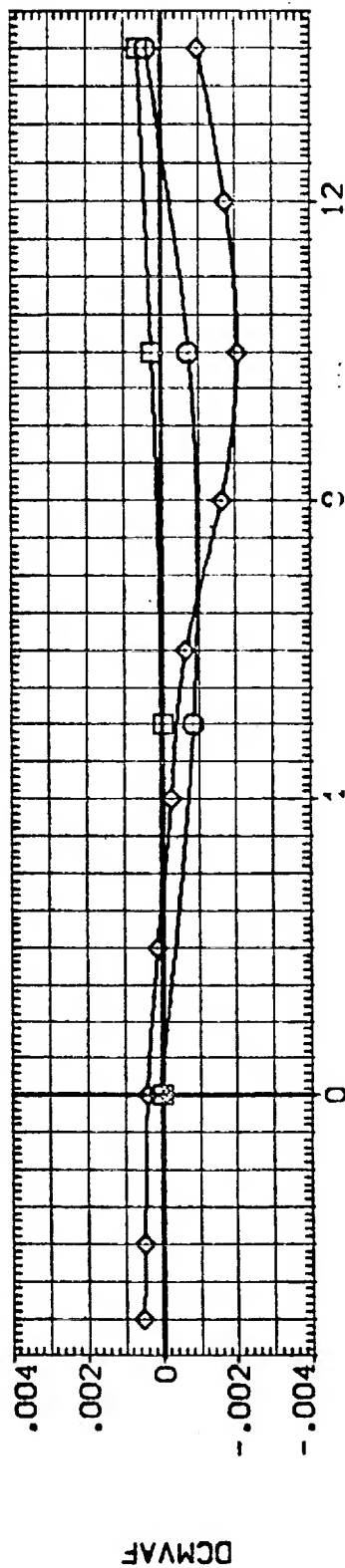
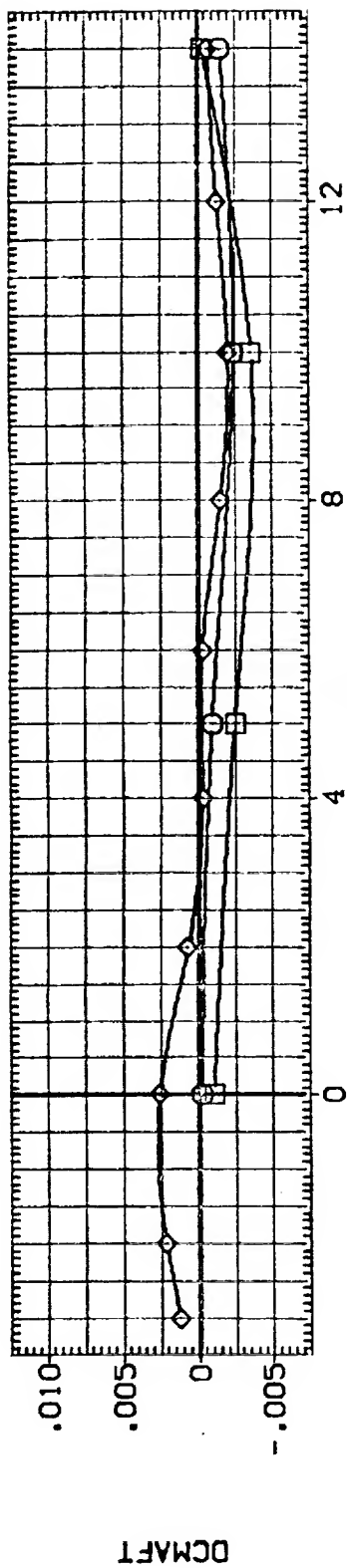


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 0AS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0AS9 0A11A-(RS V81)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

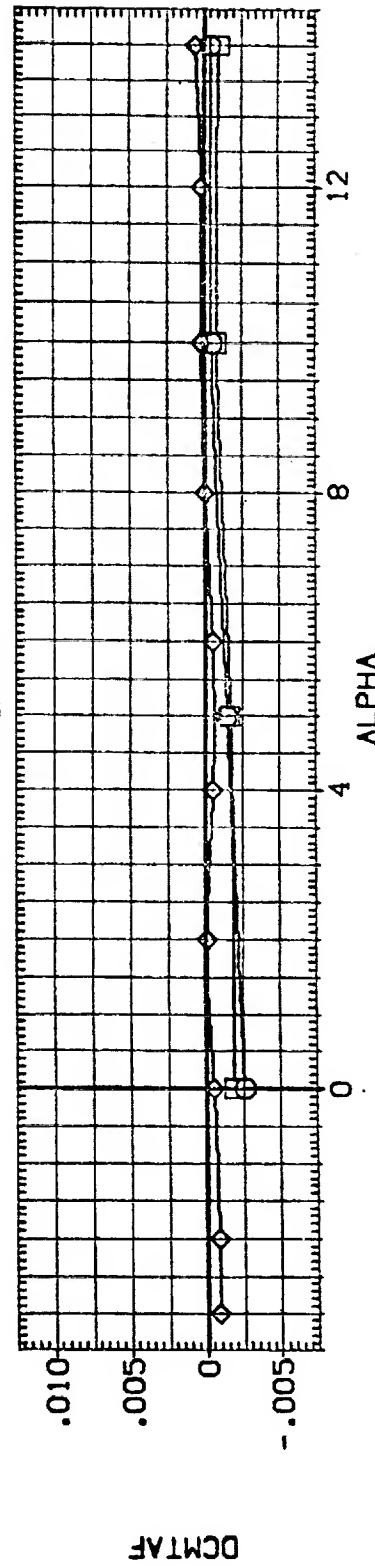
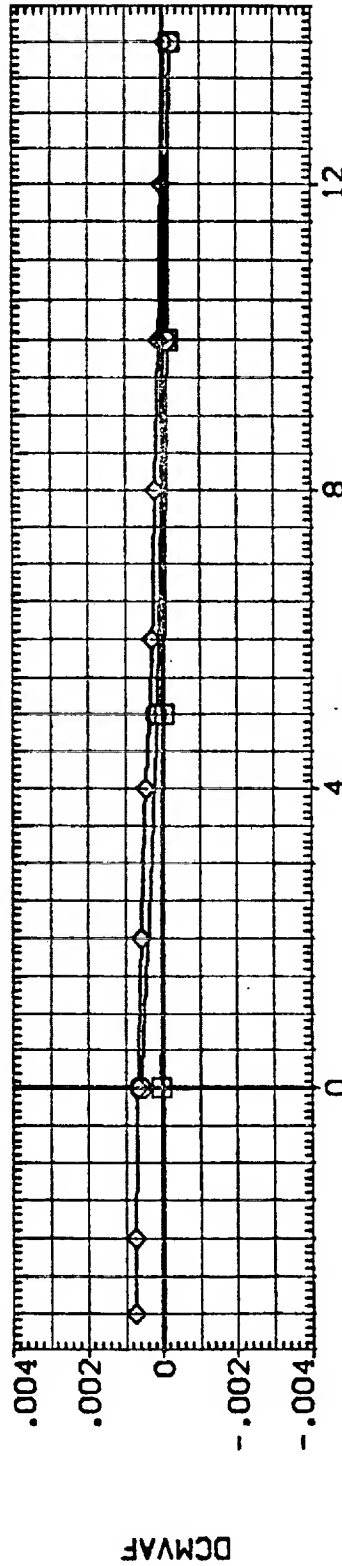
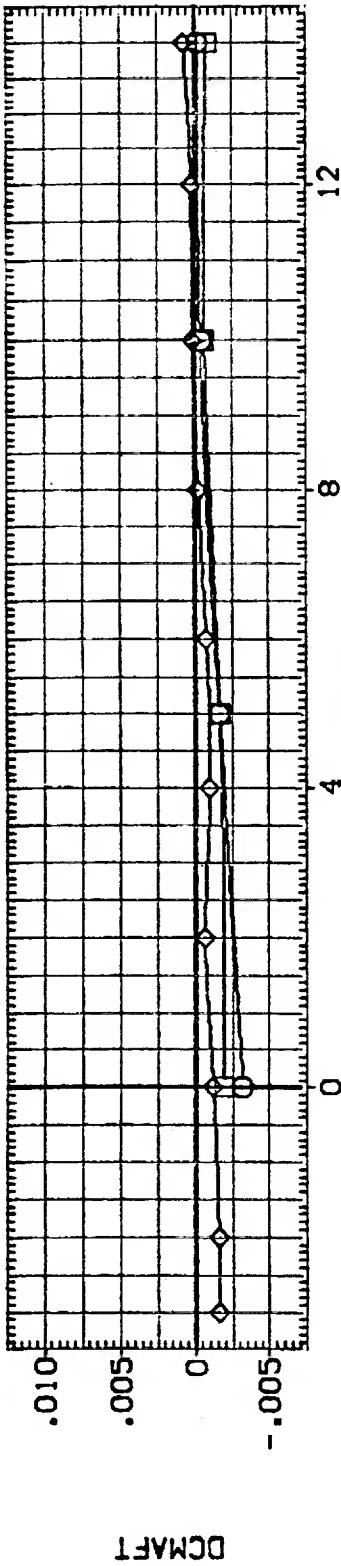


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAI1A-(RS V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER008)	ARC 66-709 QAS9 QAI1A-(N24 RS V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 QAI1A-(RS V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

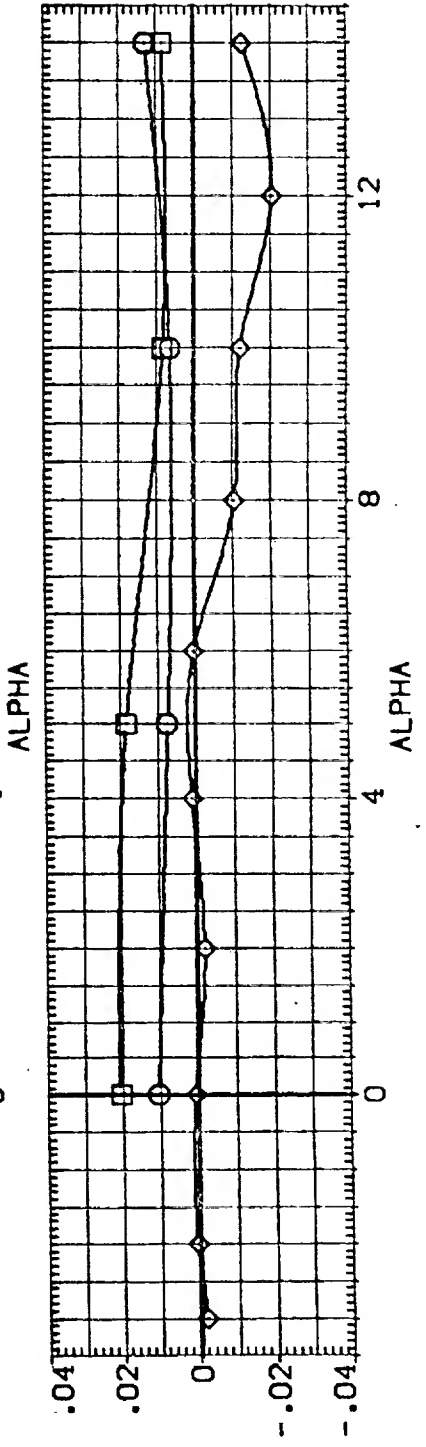
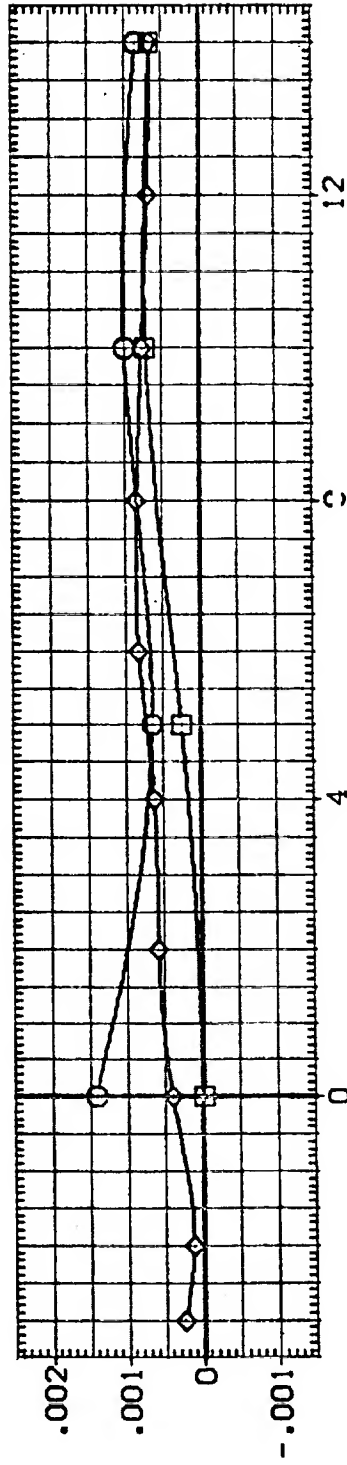
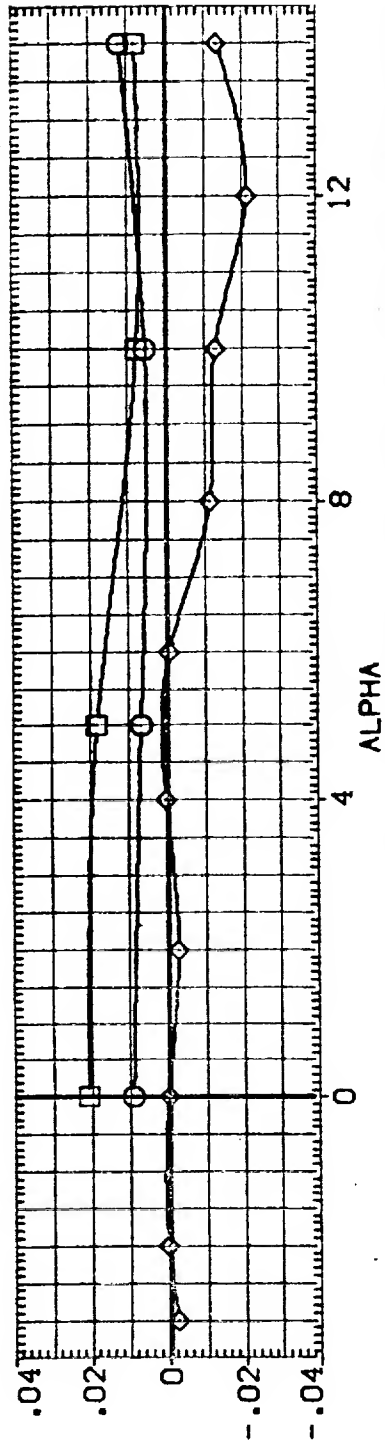




FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

CAJ MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012)  ARC 66-709 QAS9 0A11A-(RS V81)+STRUT
 (VER009) DATA NOT AVAILABLE
 (VER013)  ARC 66-709 QAS9 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 50. FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

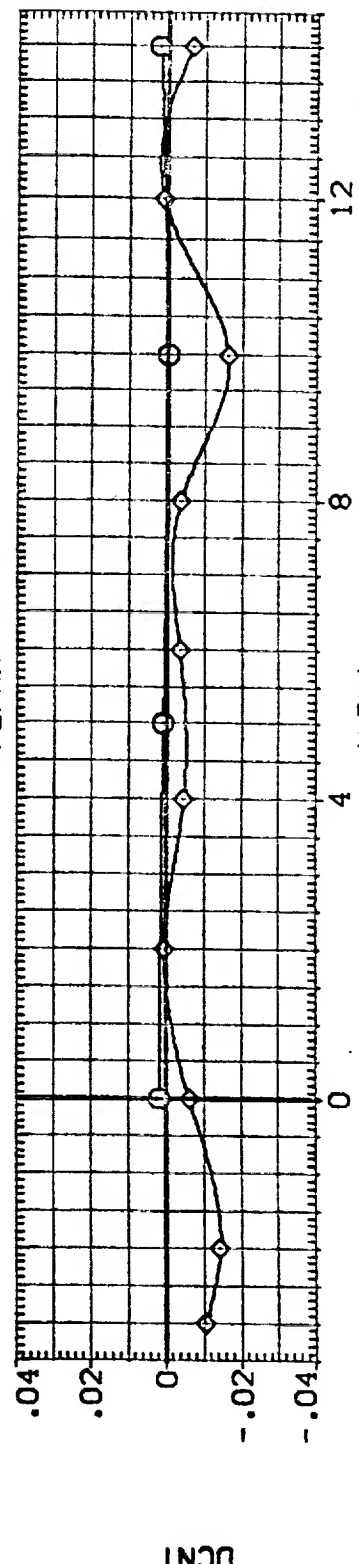
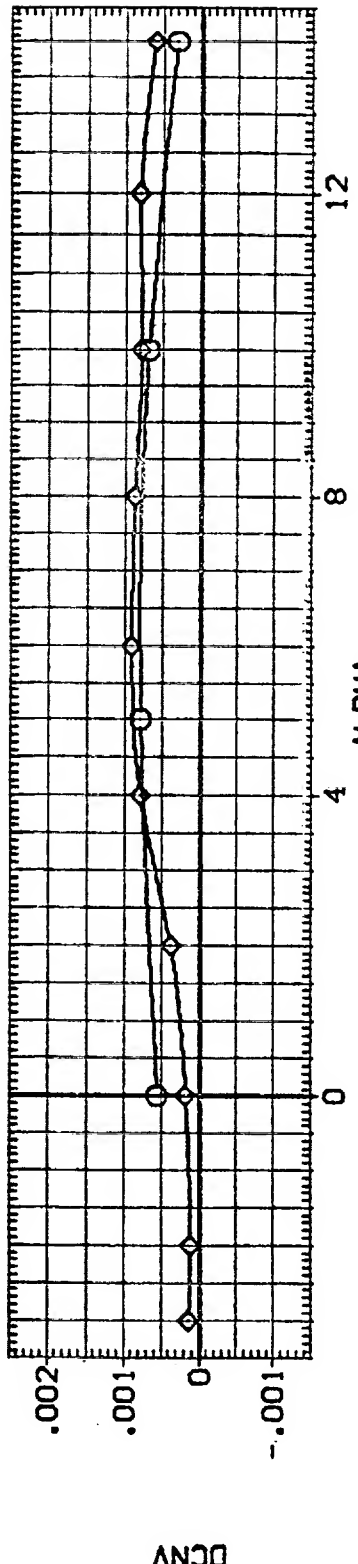
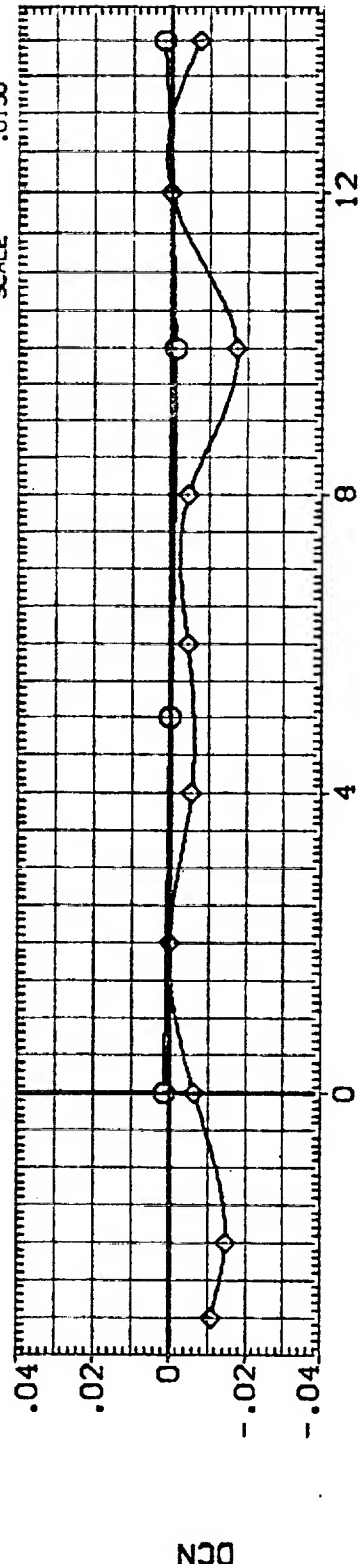




FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(8)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012)  ARC 66-709 DASS 0A11A-(R5 V8)+STRUT
 (VER009)  DATA NOT AVAILABLE
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

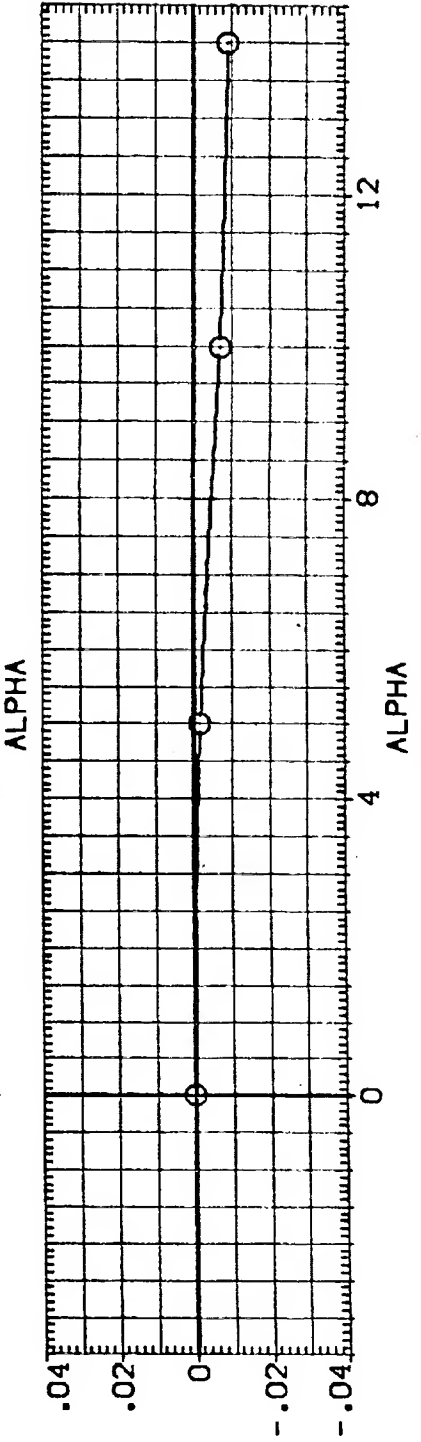
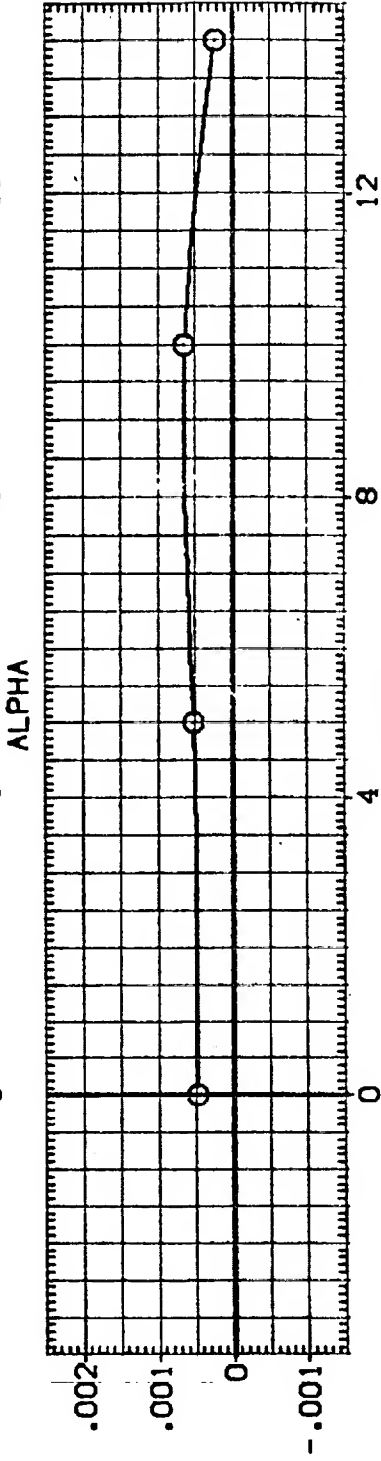
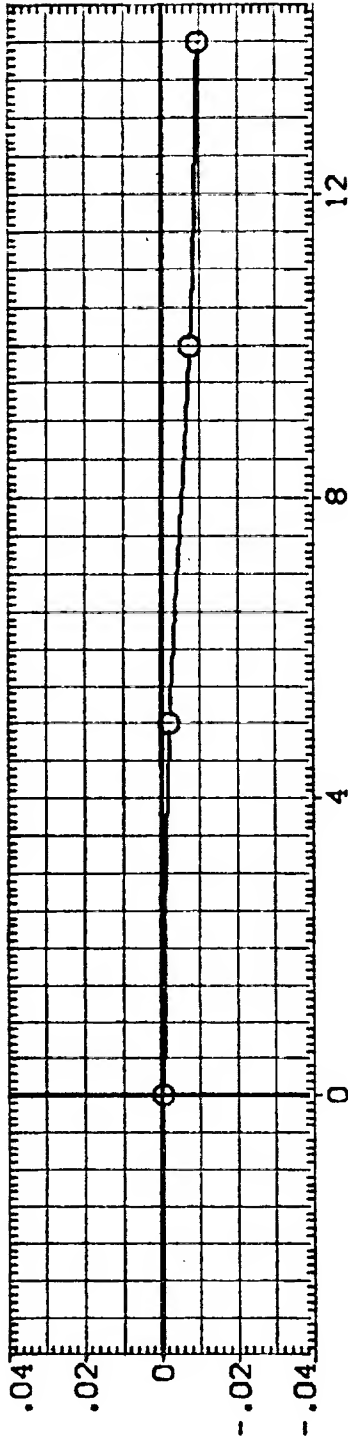


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VERO12}	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{VERO09}	ARC 66-709 OAS9 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{VERO13}	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

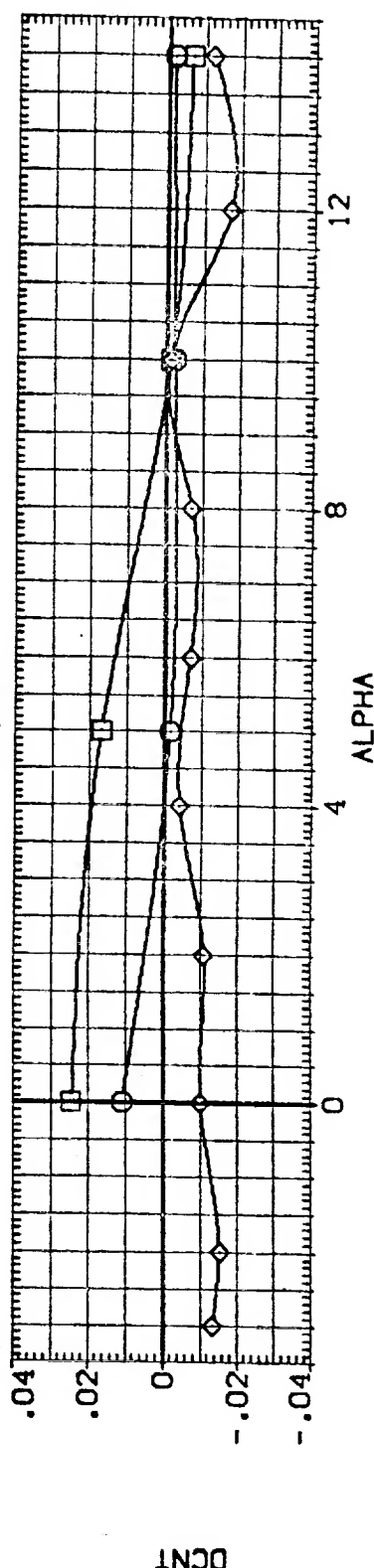
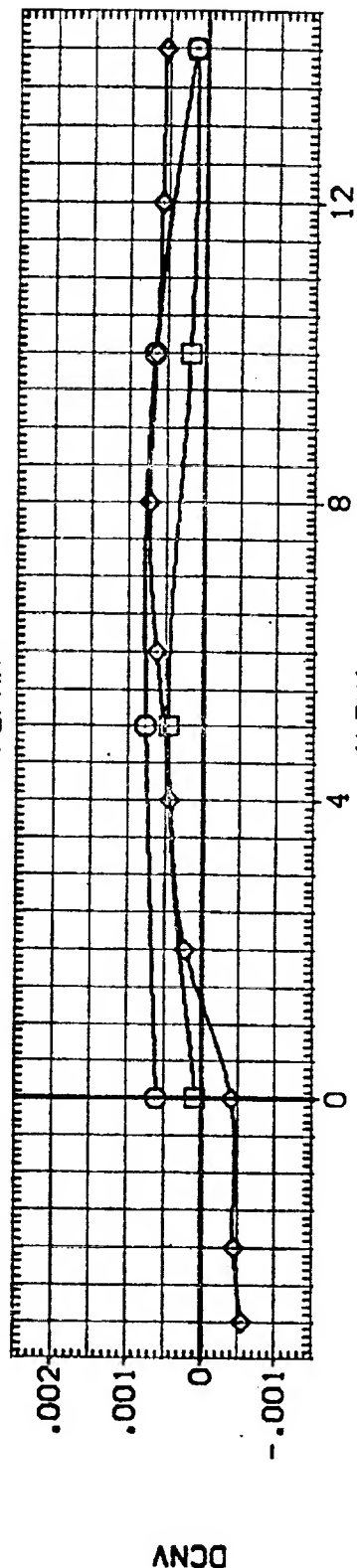
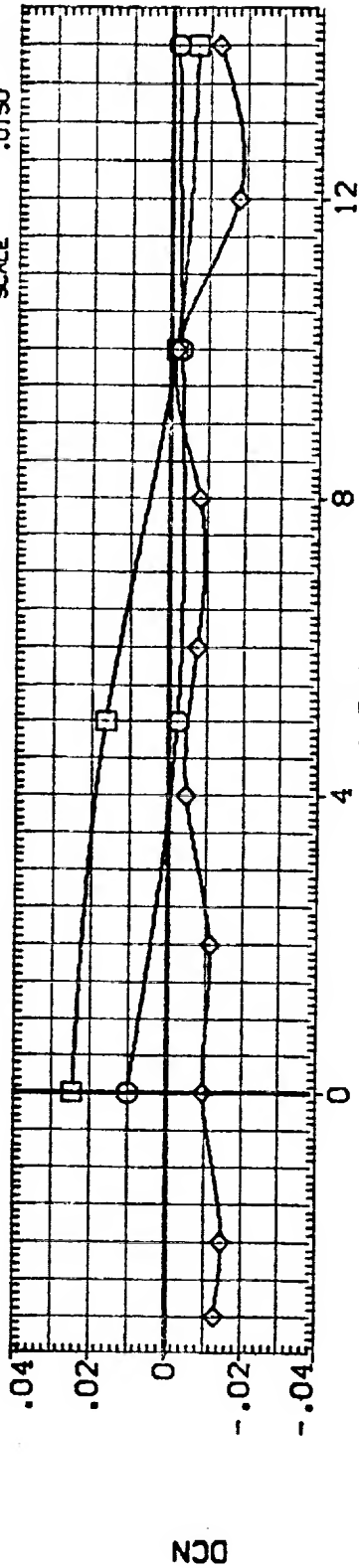


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(O)MACH = .80

DATA SET SYMBOL (VER012) (VER009) (VER013)

CONFIGURATION DESCRIPTION
ARC 66-709 OAS9 0A11A-(RS V8)*STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA .000 .000 .000

ELEVON .000 .000 15.000

80FLAP -11.700 -11.700 -11.700

REFERENCE INFORMATION
SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

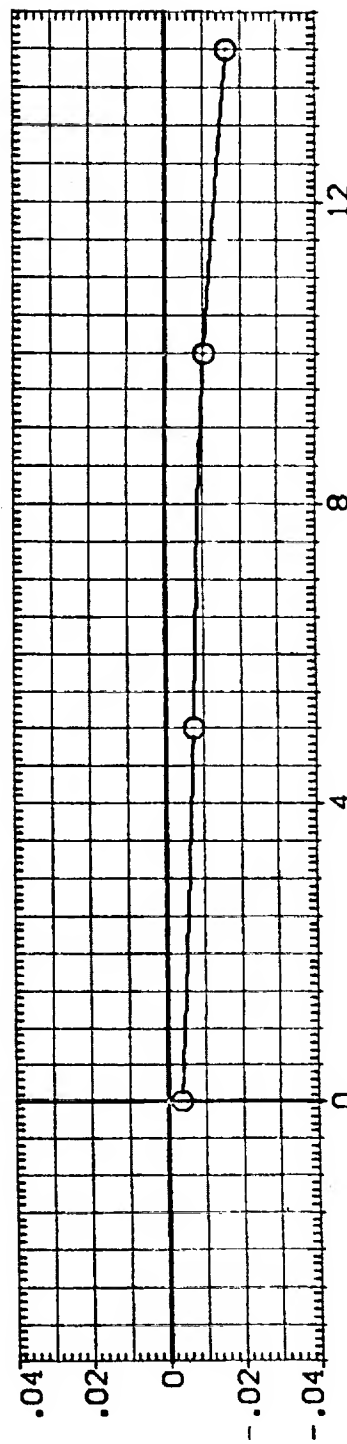
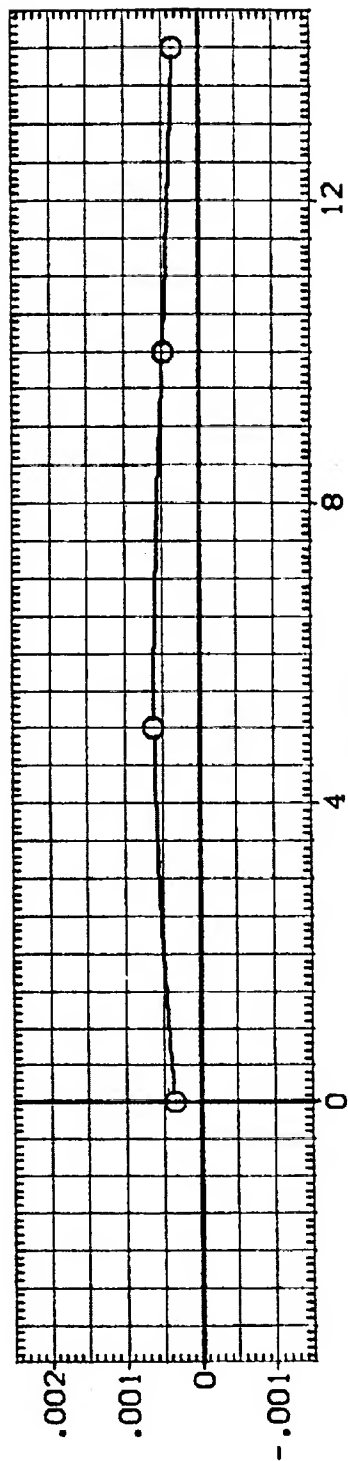
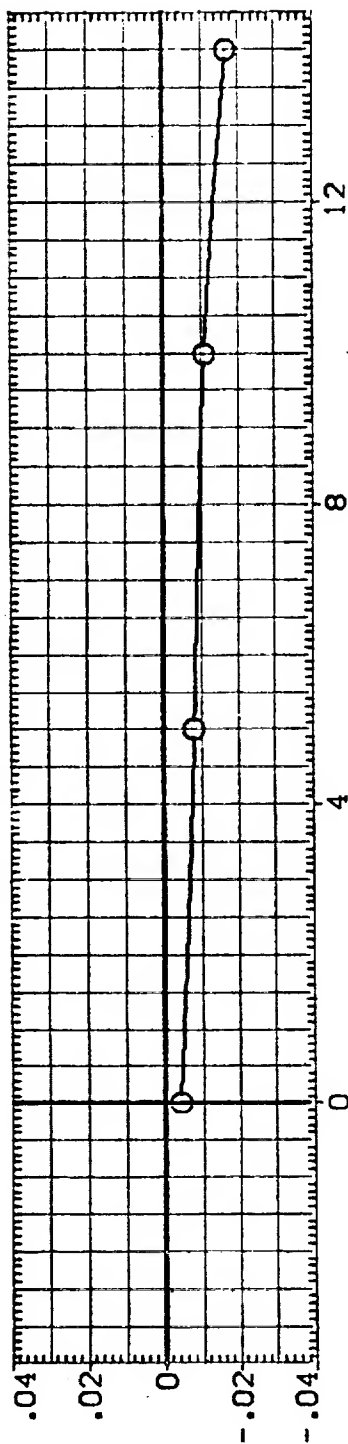


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

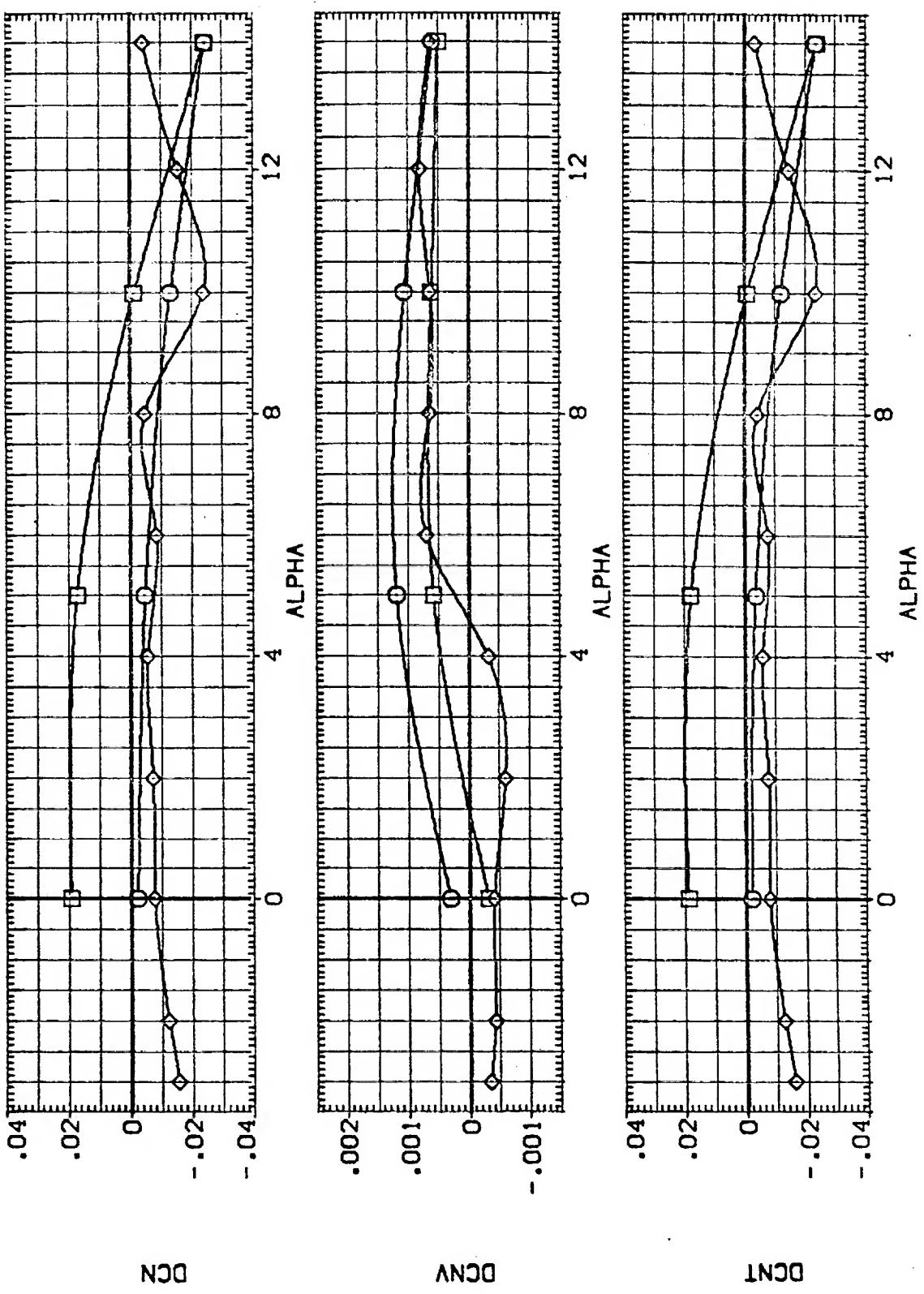


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 DASS DALLA- (RS V8)+STRUT
 (VER009) DATA NOT AVAILABLE
 (VER013) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

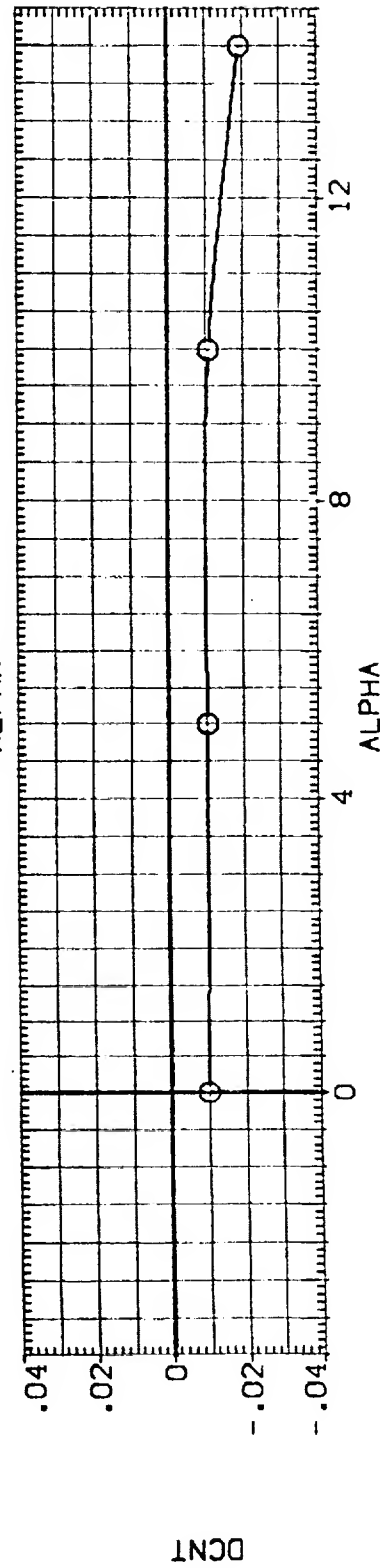
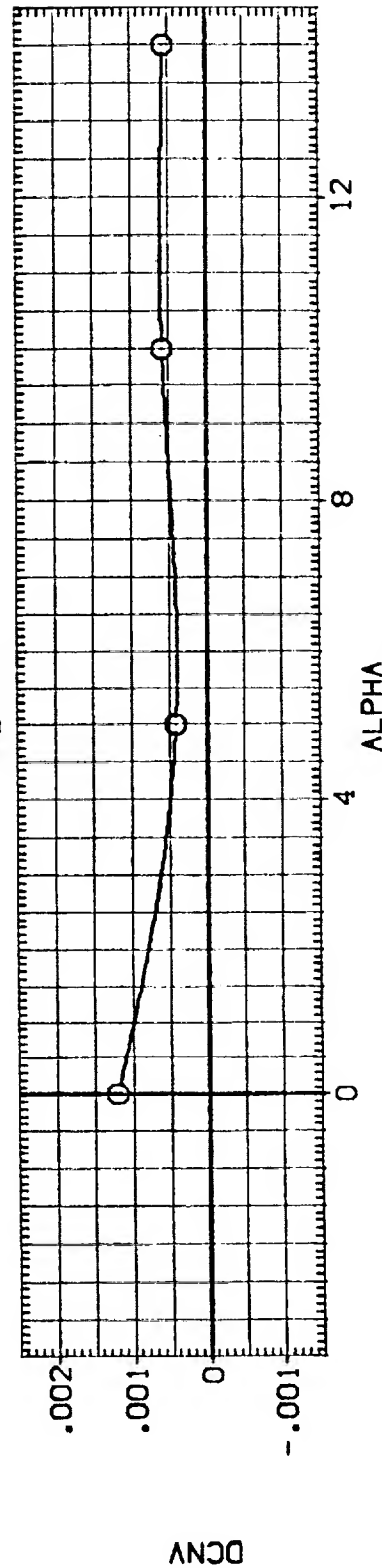
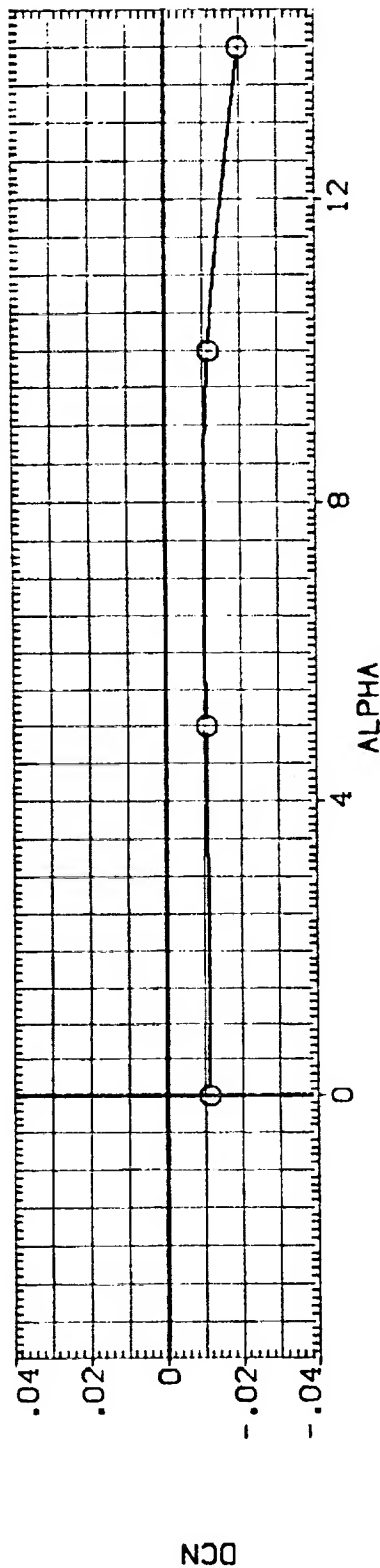


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

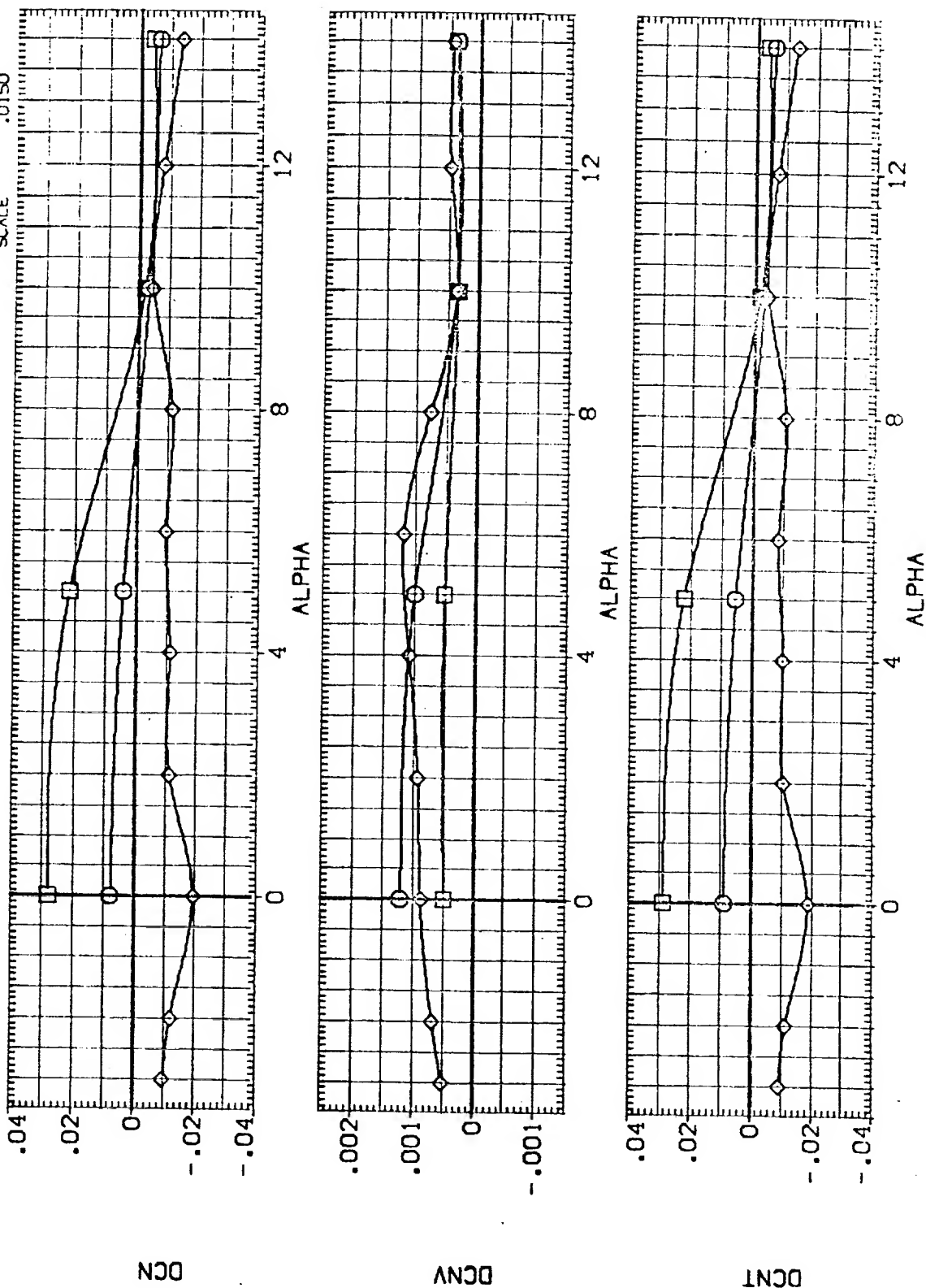


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

CHOMACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER012}	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{VER009}	ARC 66-709 DA59 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
{VER013}	ARC 66-709 DA59 DA11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

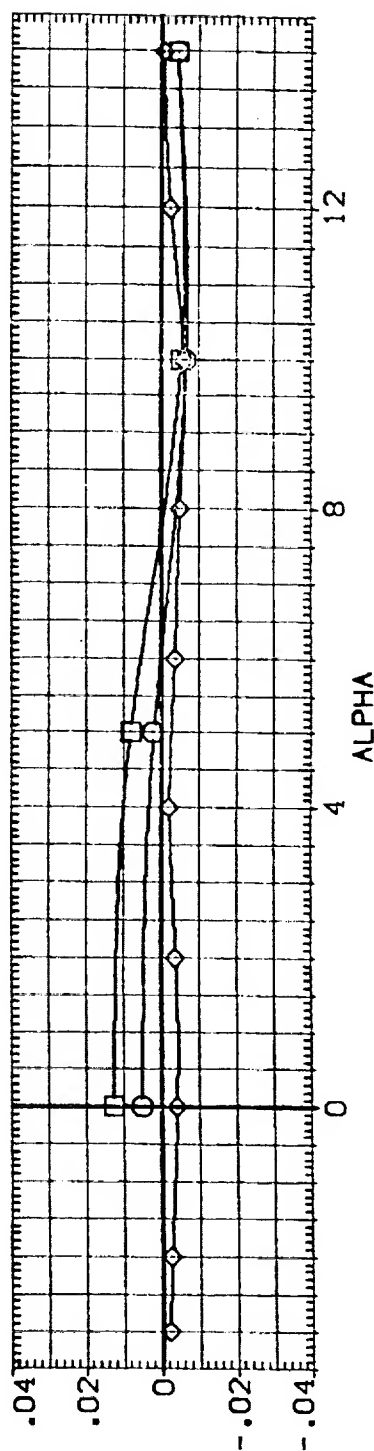
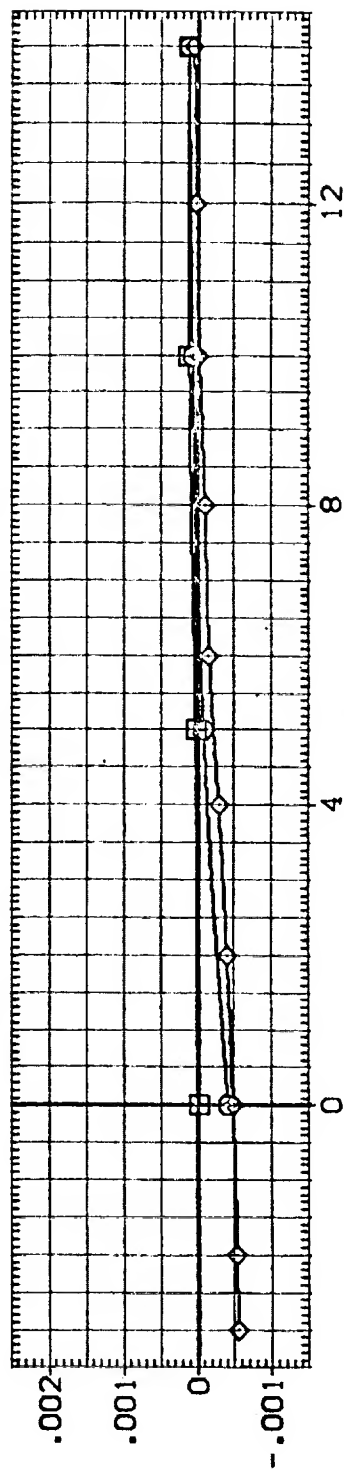
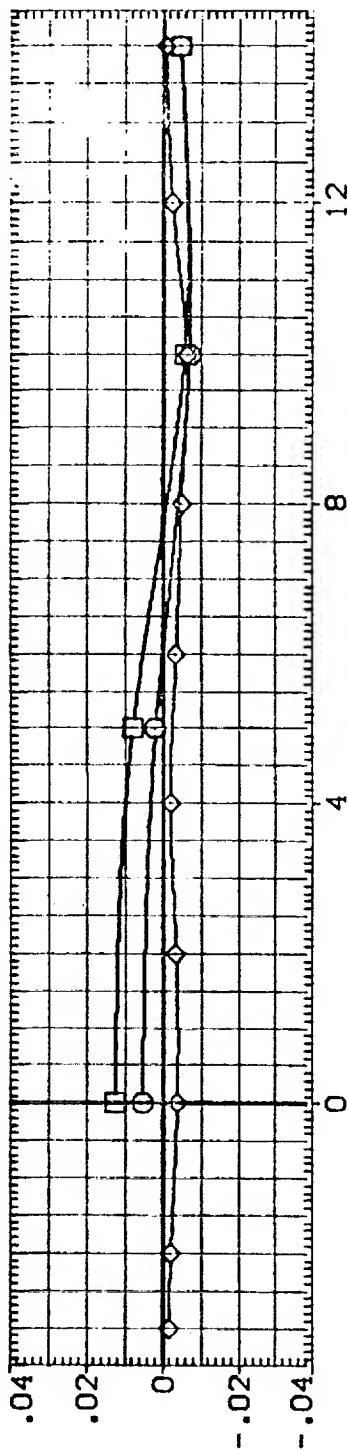


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V8)-STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

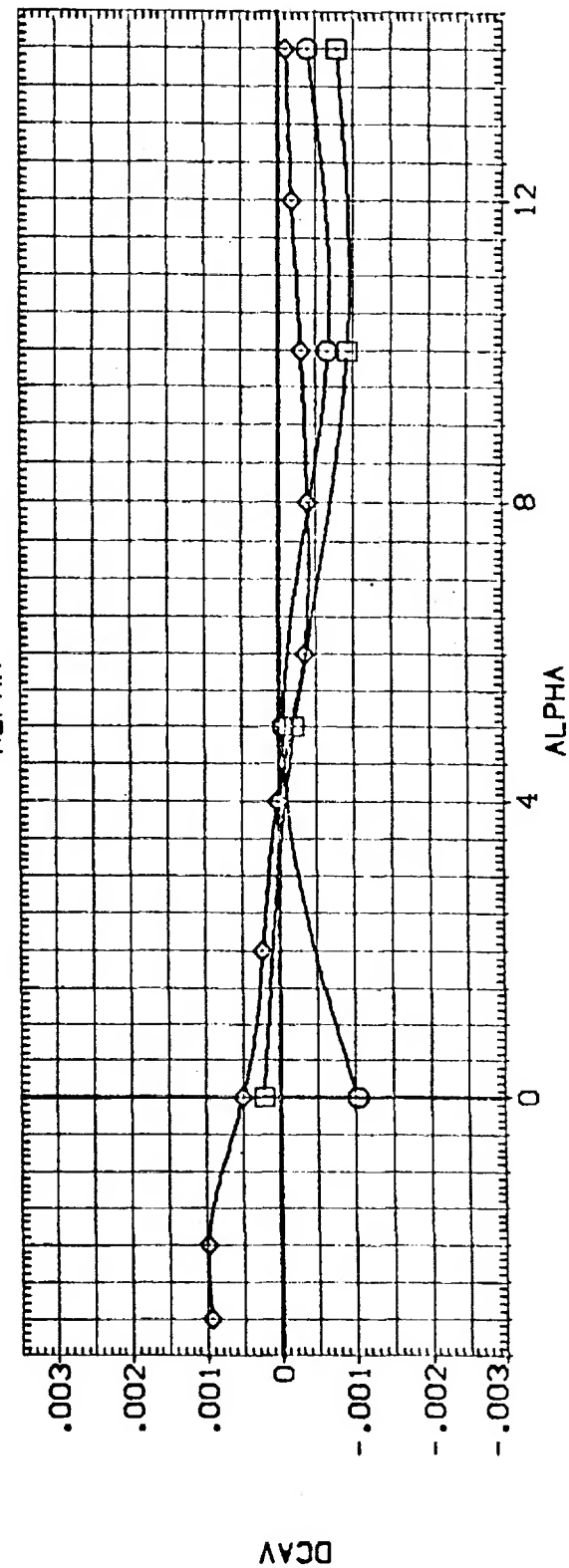
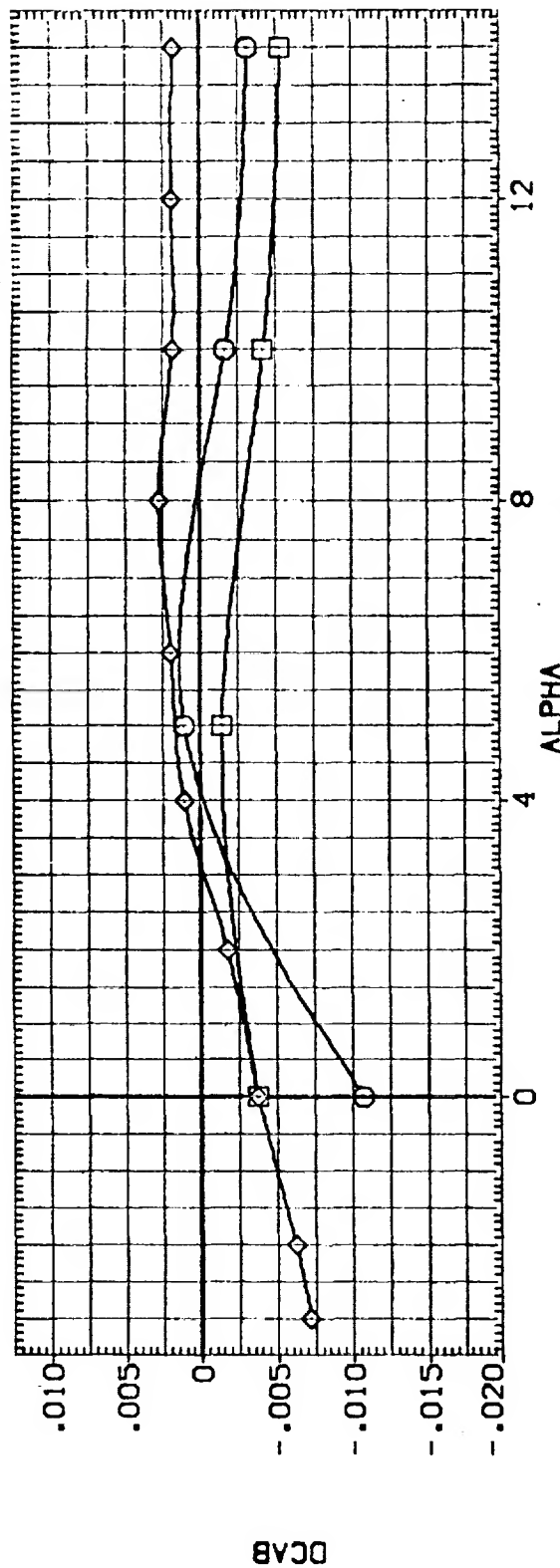


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	DATA NOT AVAILABLE	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

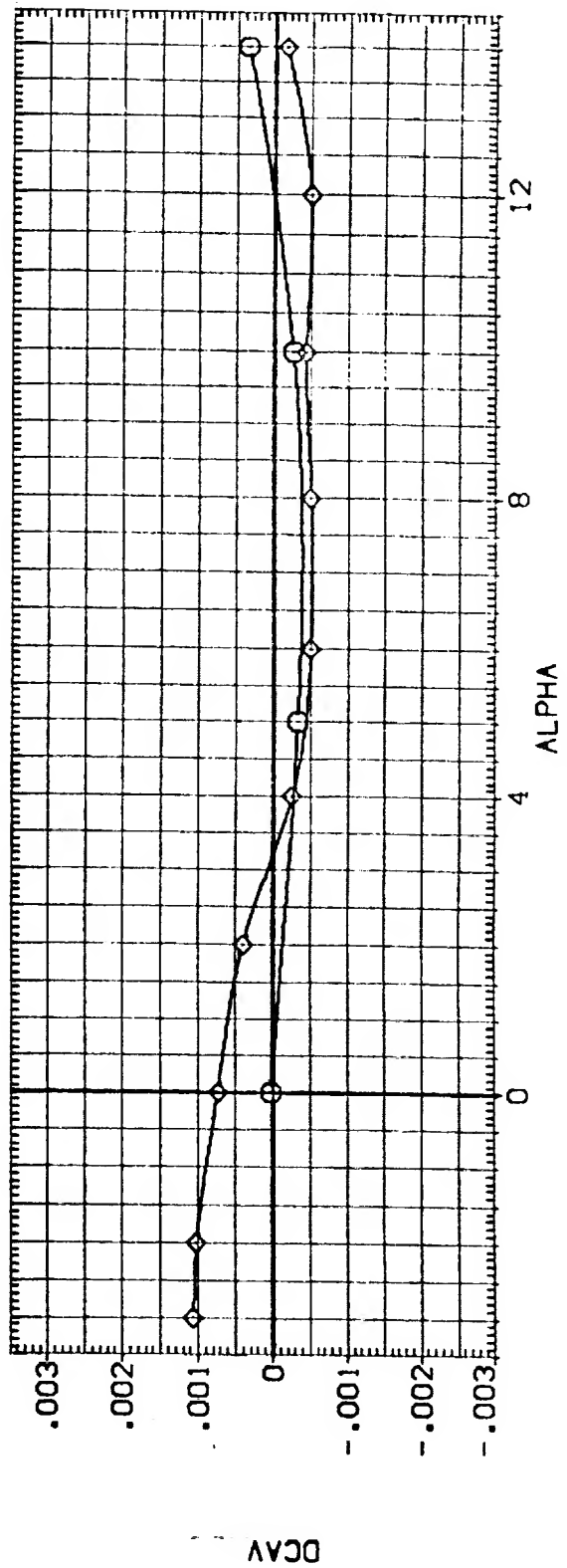
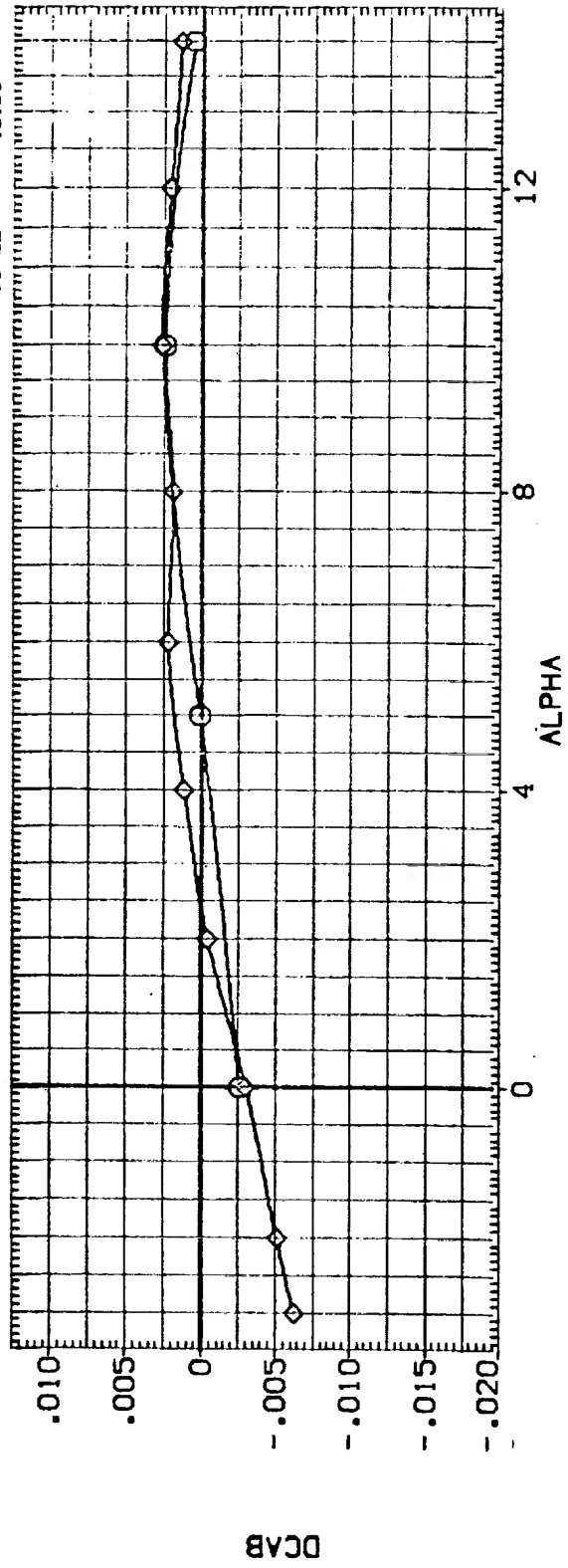


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL (VER012) (VER009) (VER013)

CONFIGURATION DESCRIPTION

ARC 56-709 0A53 0A11A-(R5 V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA ELEVON BOFLAP
.000 .000 -11.700
.000 .000 -11.700
15.000

REFERENCE INFORMATION
SREF .5053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

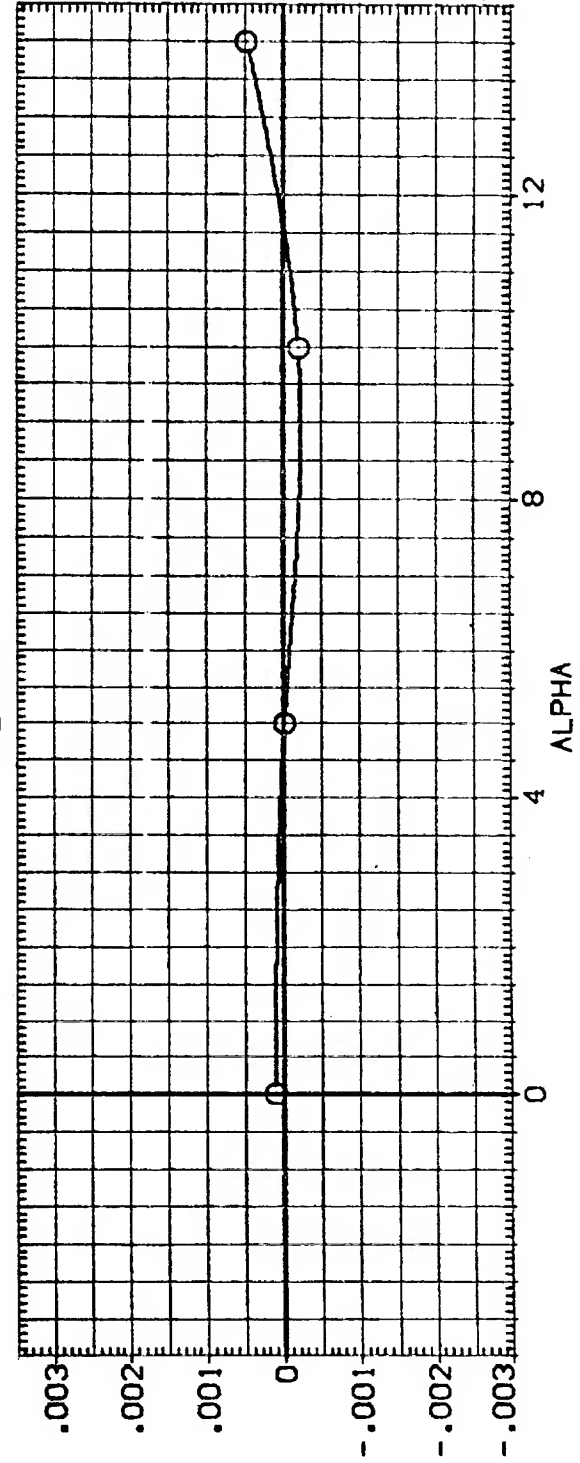
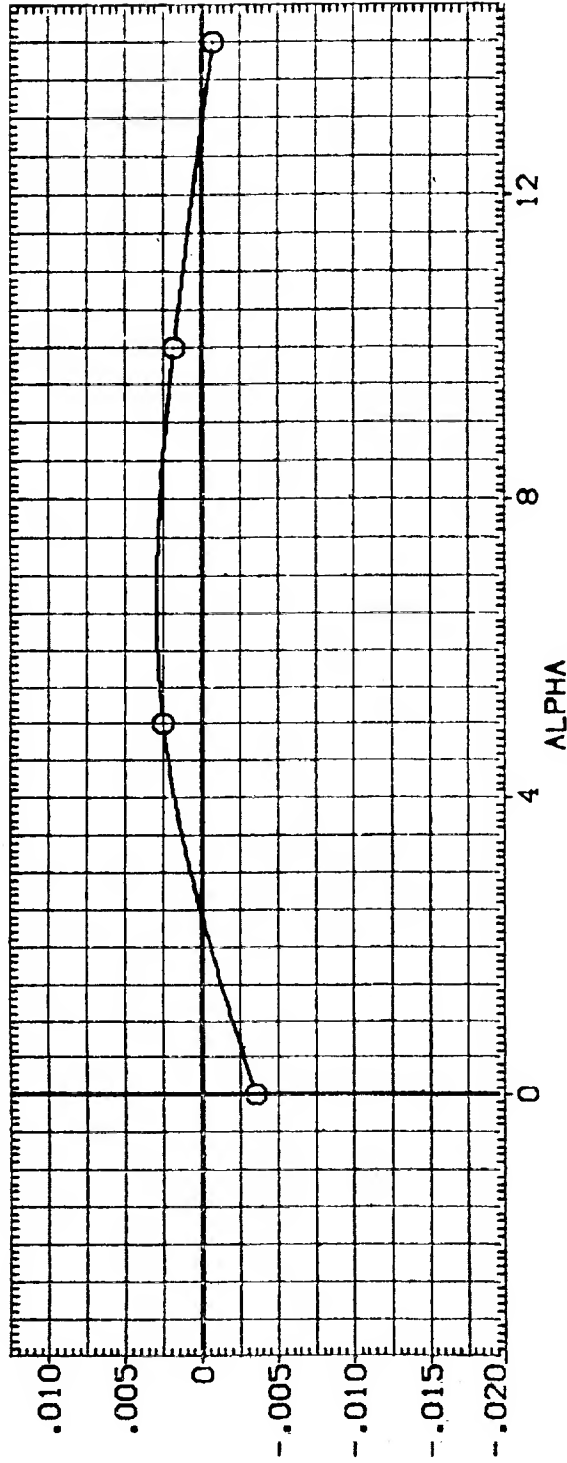


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER008)	ARC 66-709 QAS9 QAL1A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMPP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

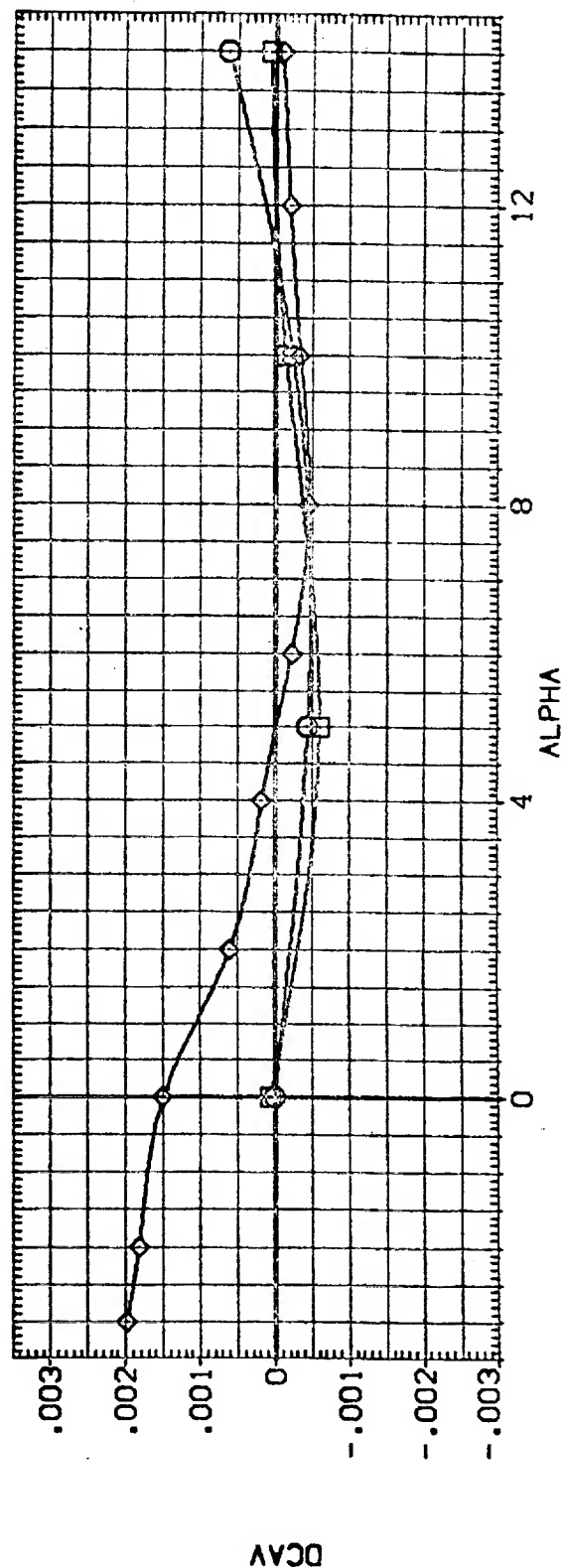
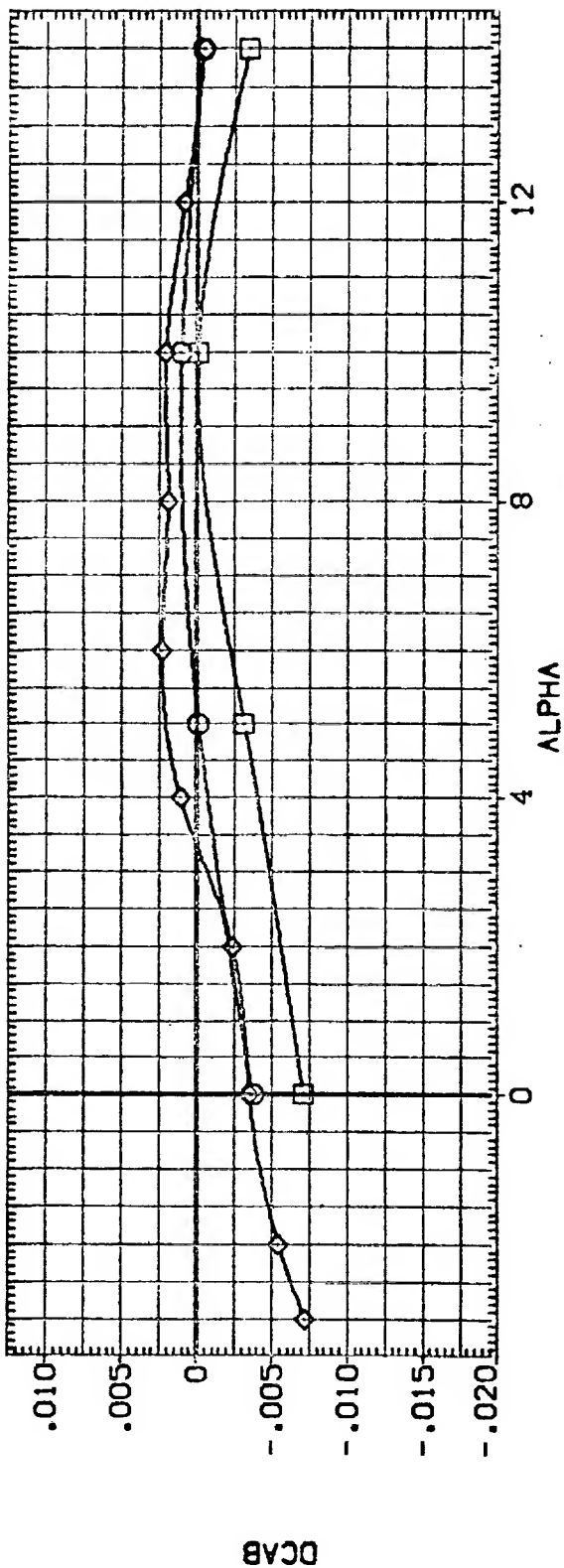


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(D)MACH = .80

DATA SET SYMBOL: (VER012)
 (VER009)
 (VER013)

CONFIGURATION DESCRIPTION:
 ARC 66-709 BASS DA11A-(R5 V8)-STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA: .000
 .000
 .000

ELEVON: .000
 .000
 15.000

BOFLAP: -11.700
 -11.700
 -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 IN.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

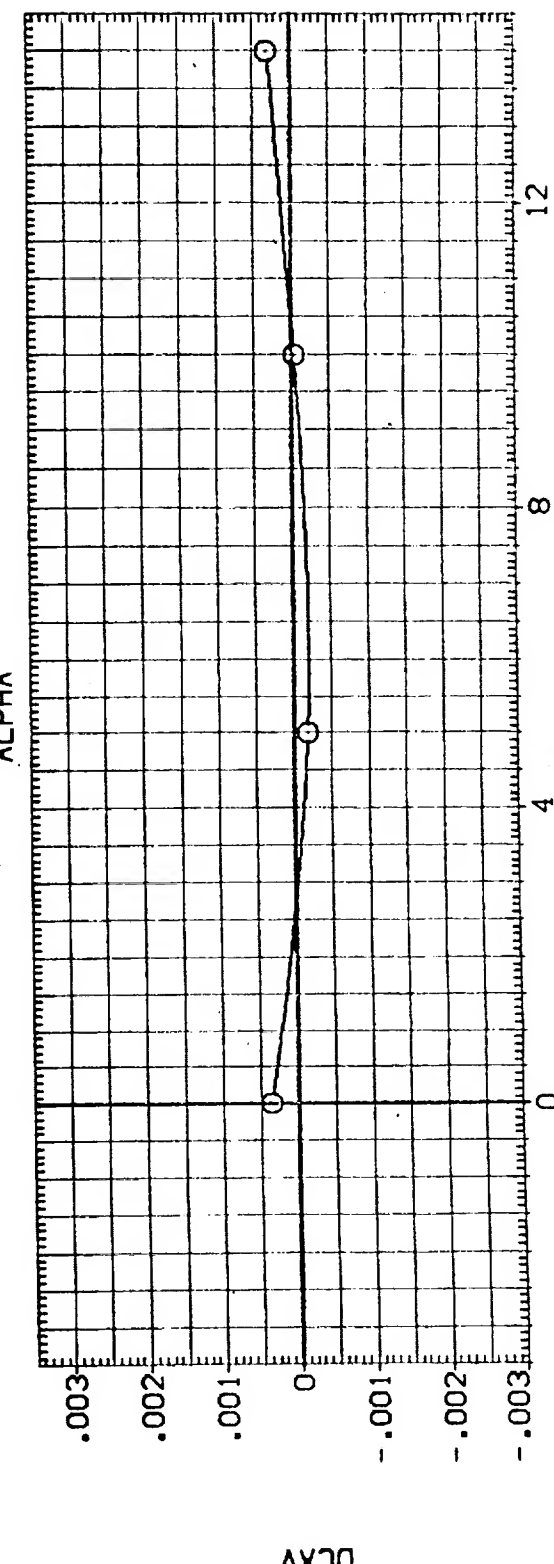
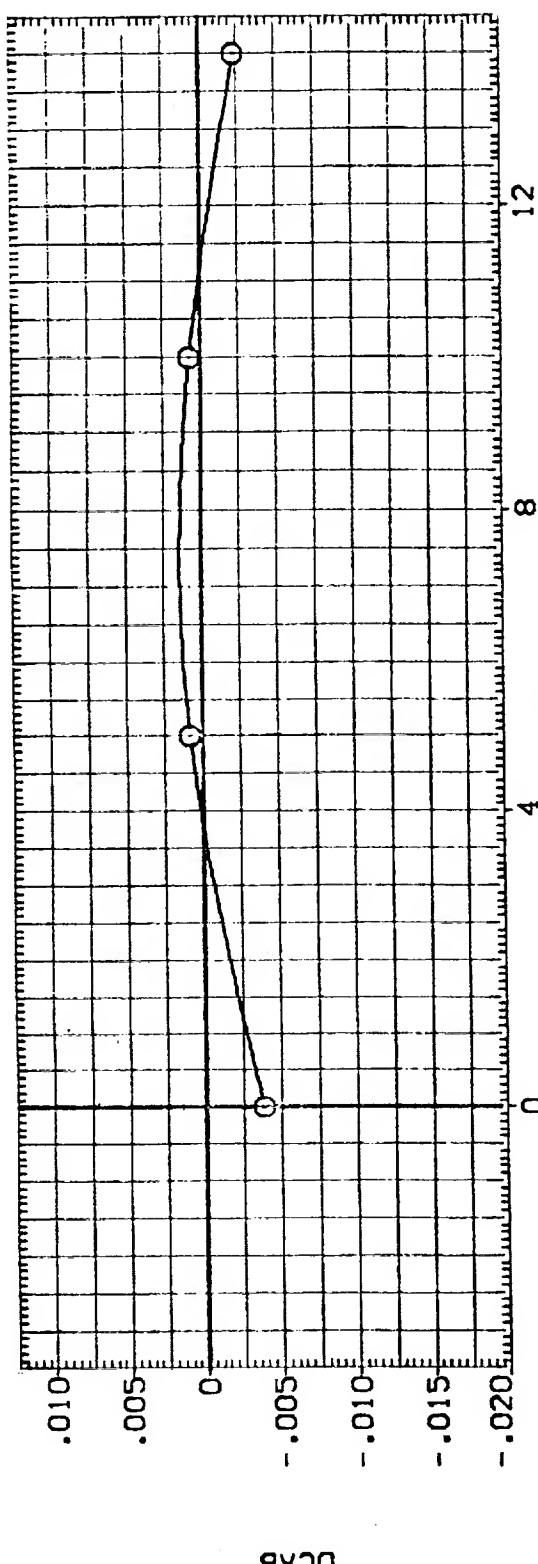


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 65-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO09)	ARC 65-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VERO13)	ARC 65-709 0A59 0A11A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

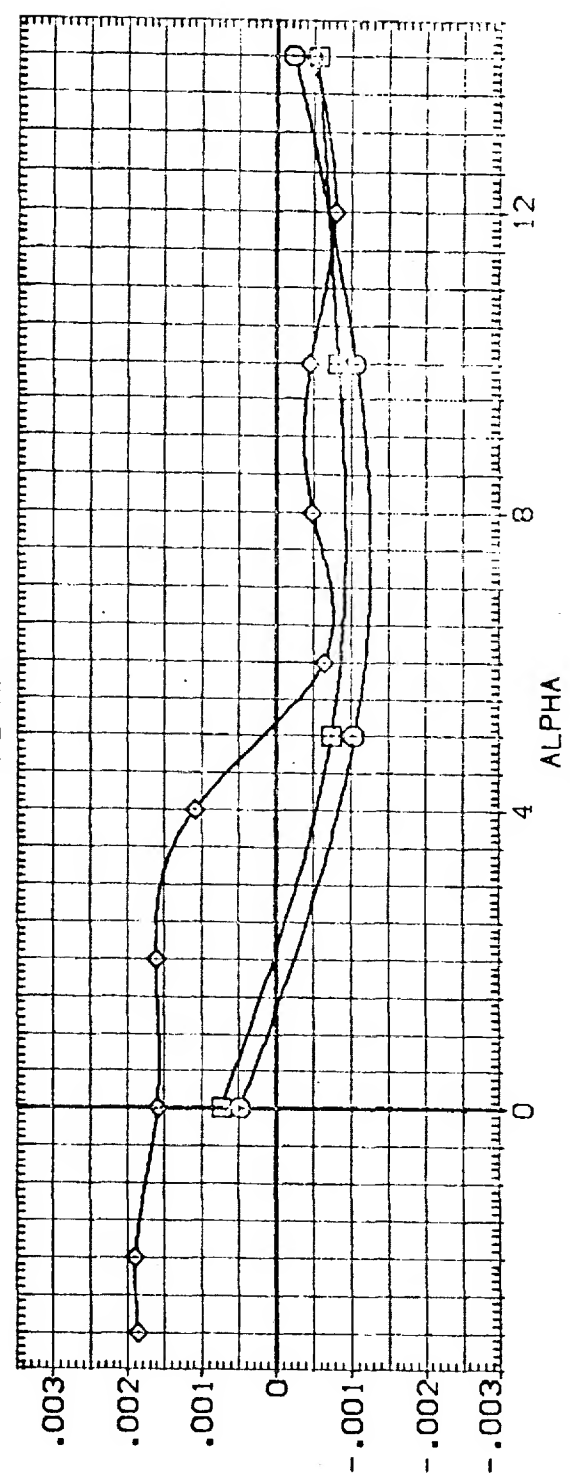
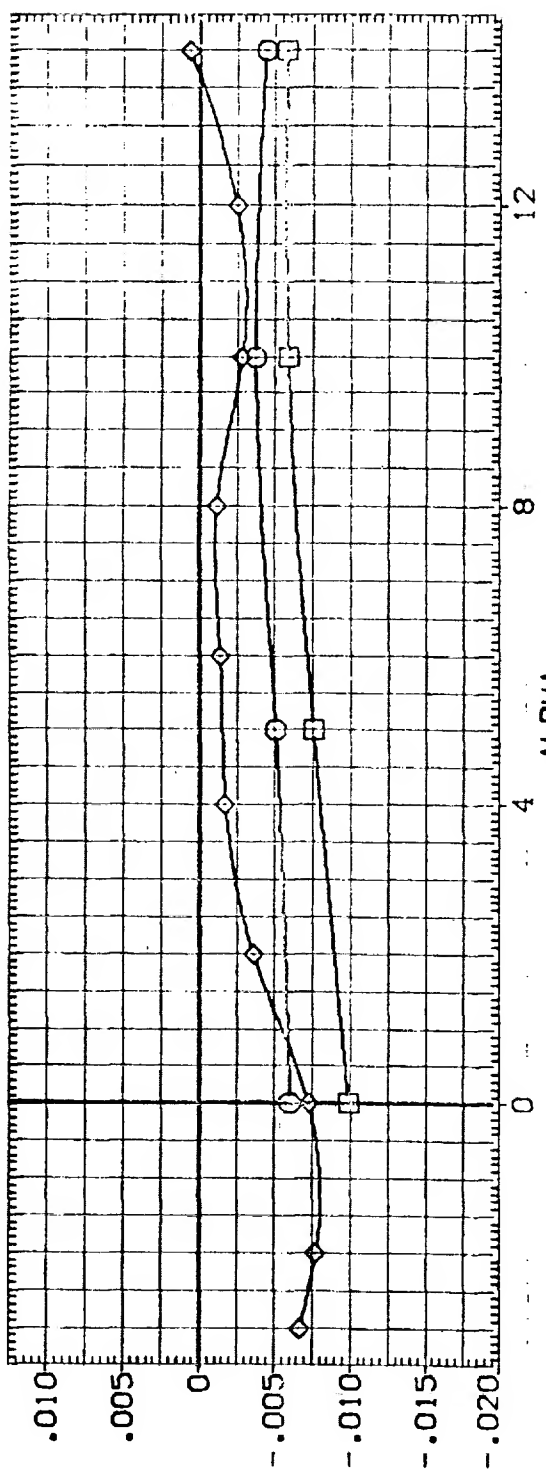
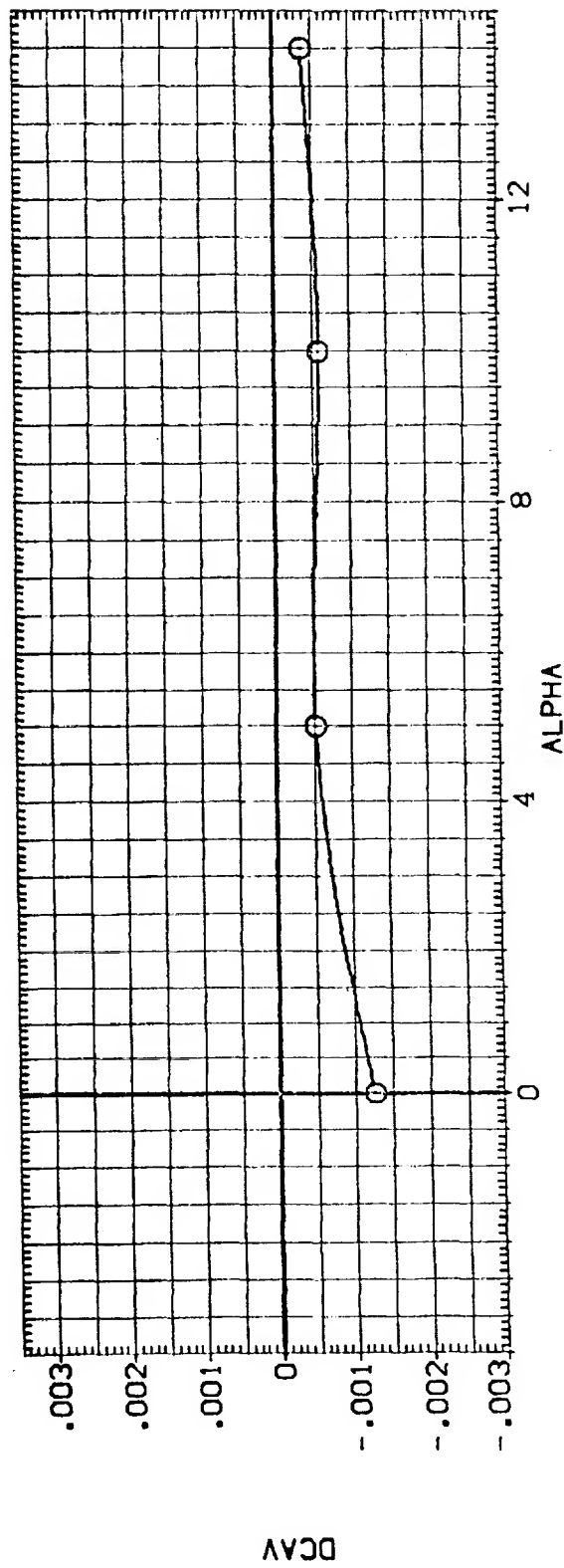
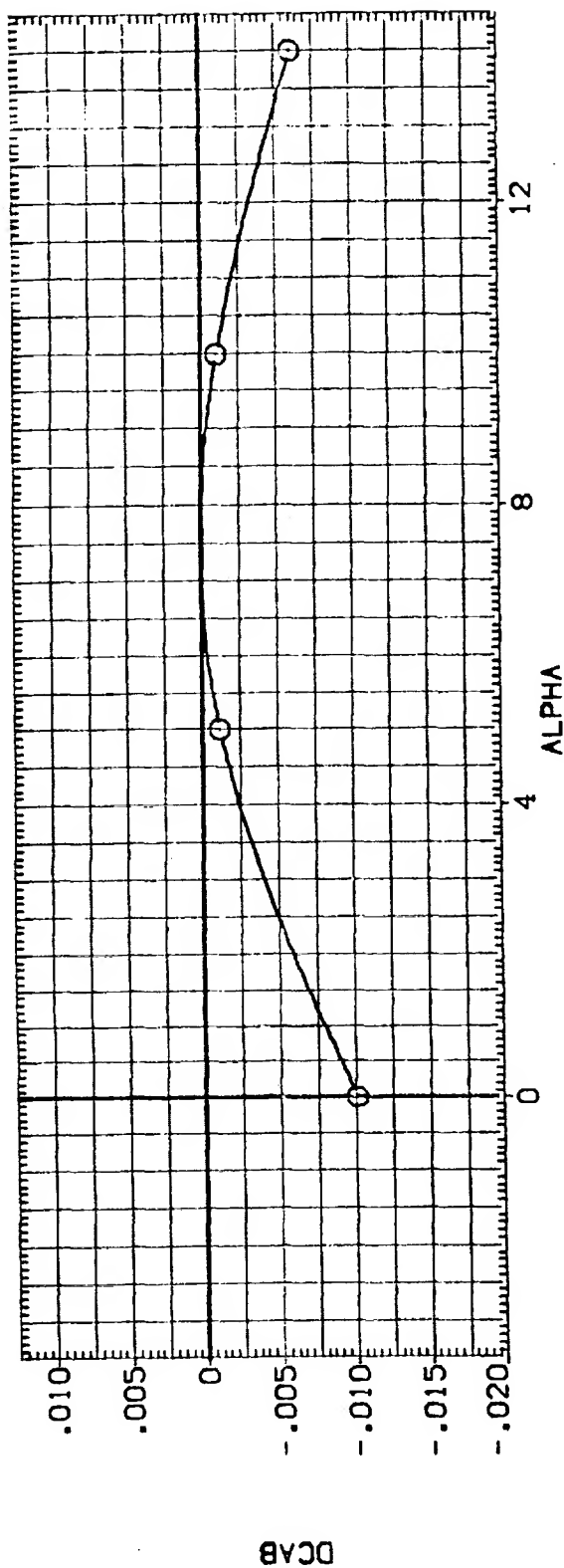


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(F)MACH = .90

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5835 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 (VER009) ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 (VER013) ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700
 .000 15.000 -11.700

REFERENCE INFORMATION
 SREF 6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

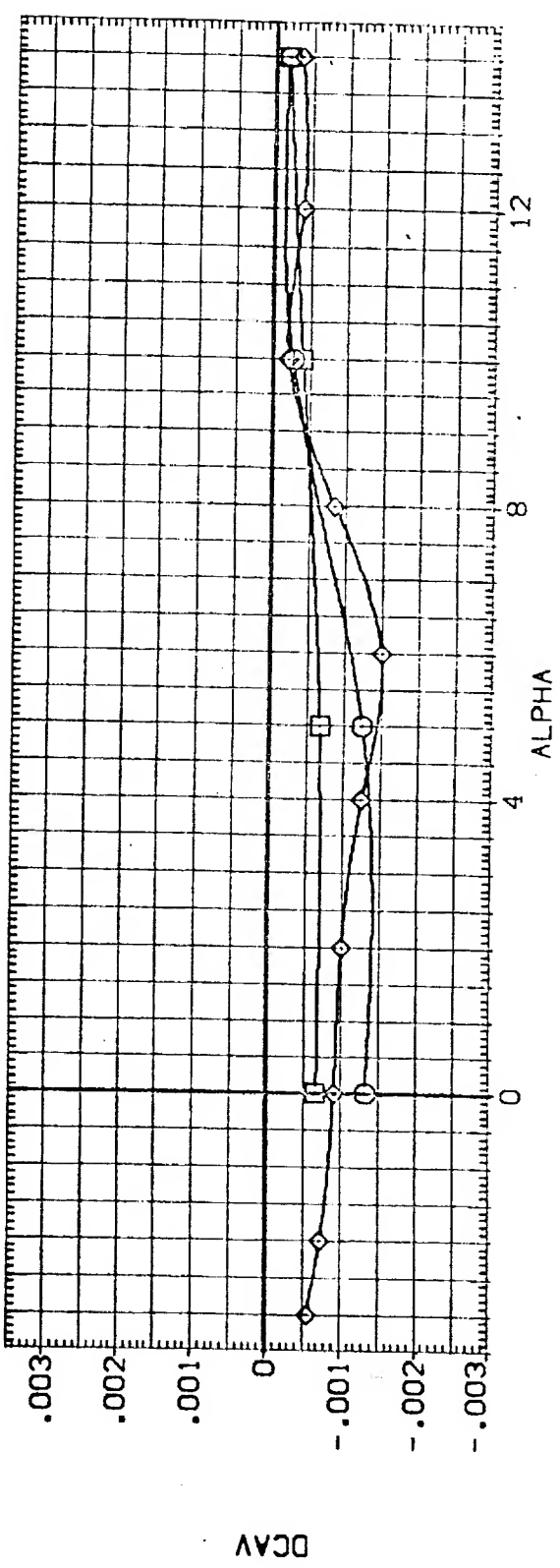
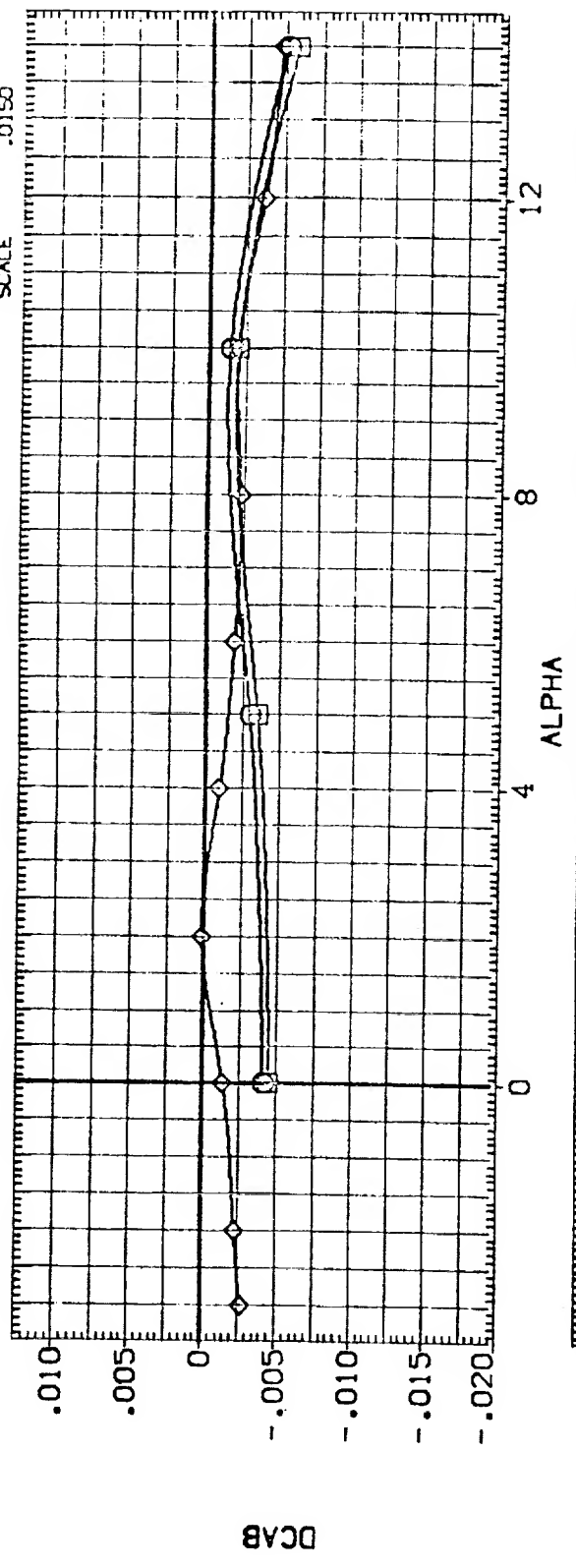


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 QAL1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 QAS9 QAL1A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5953 FT.
(VER013)	ARC 66-709 QAS9 QAL1A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1110 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

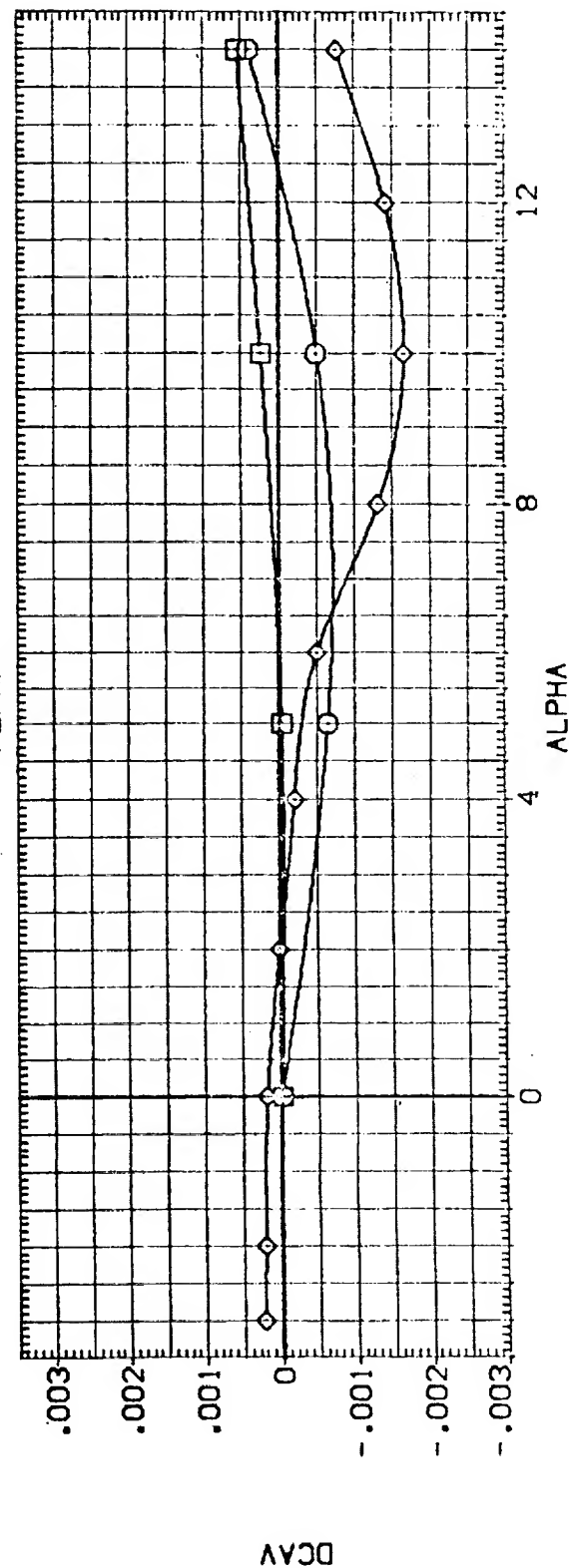
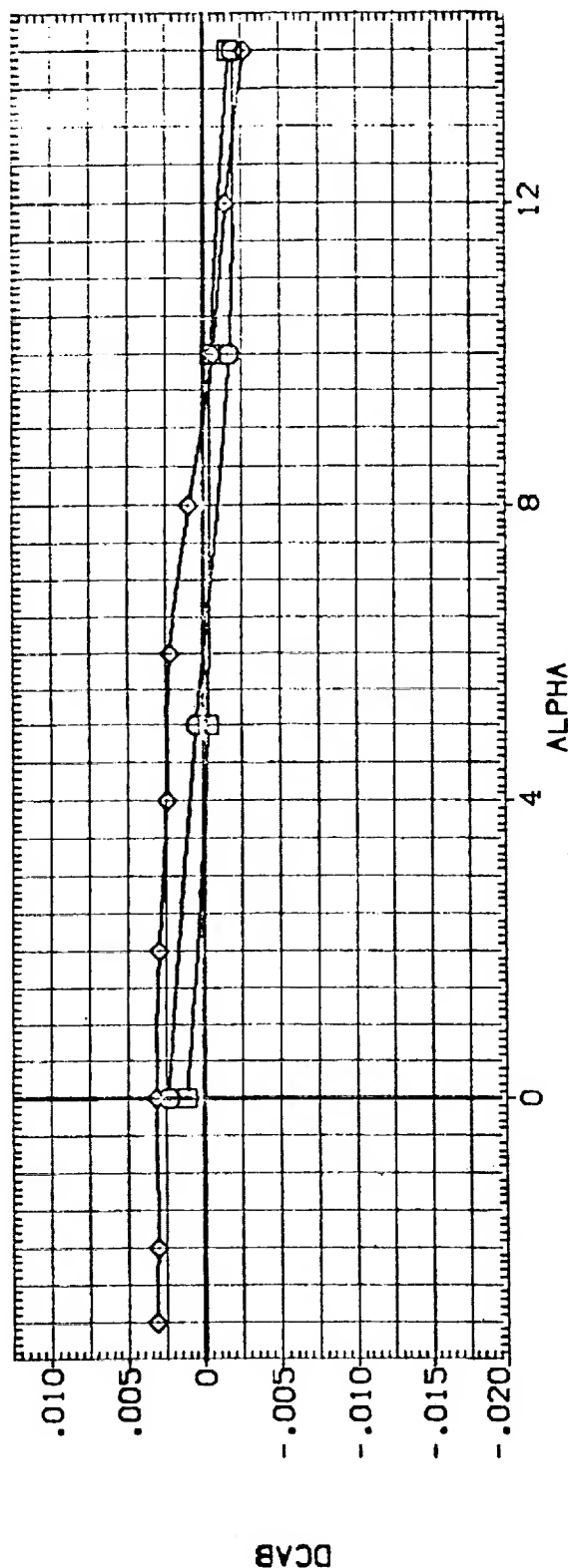


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 0A59 0A11A-(N2A R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

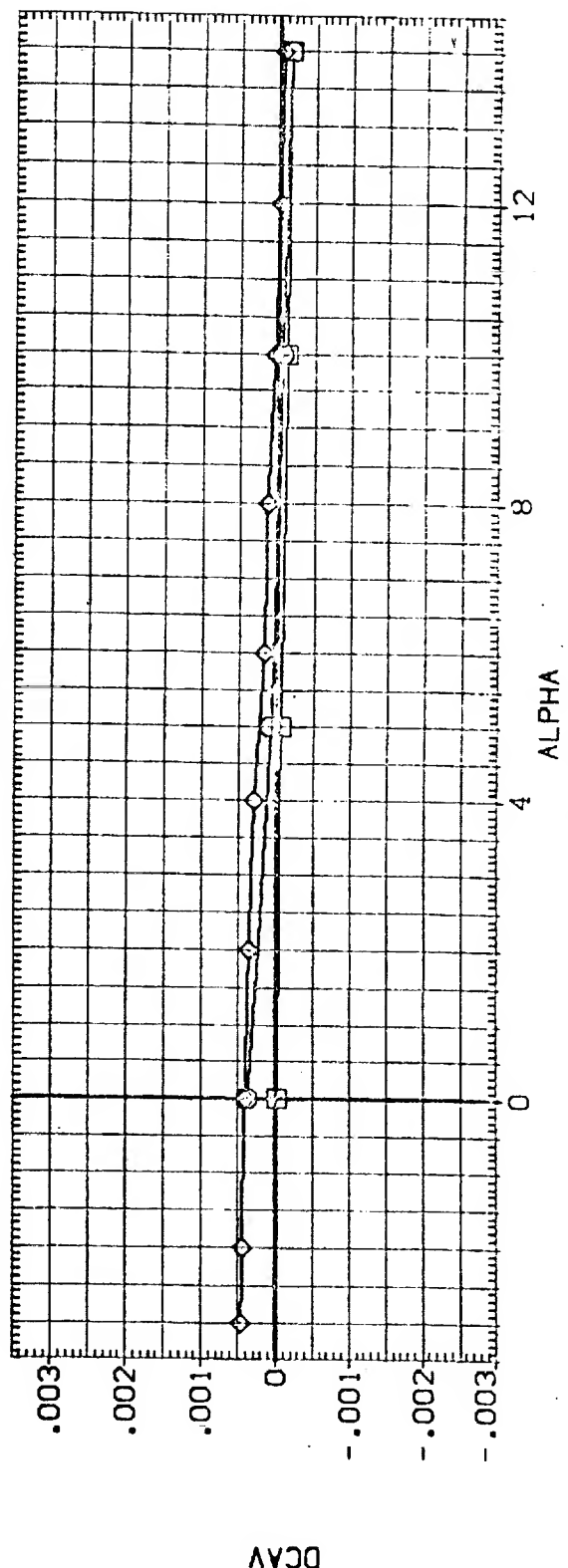
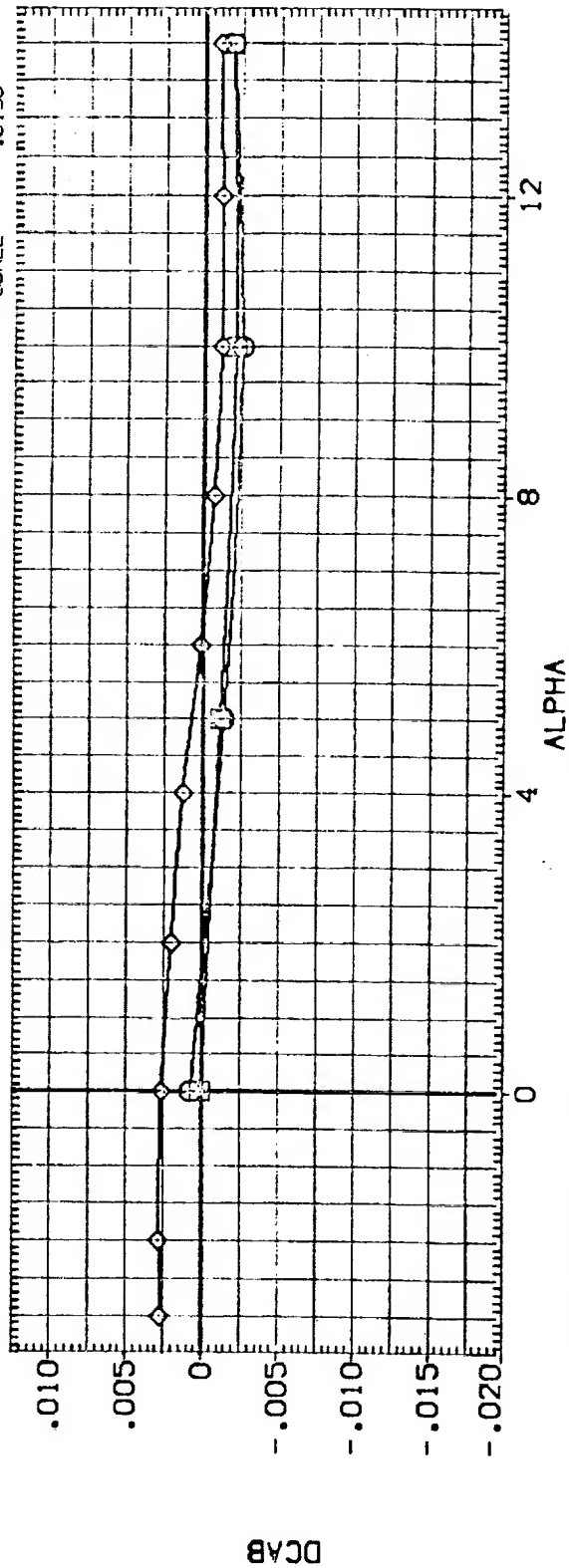


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(JJMACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 DASS DAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASS DAI1A-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

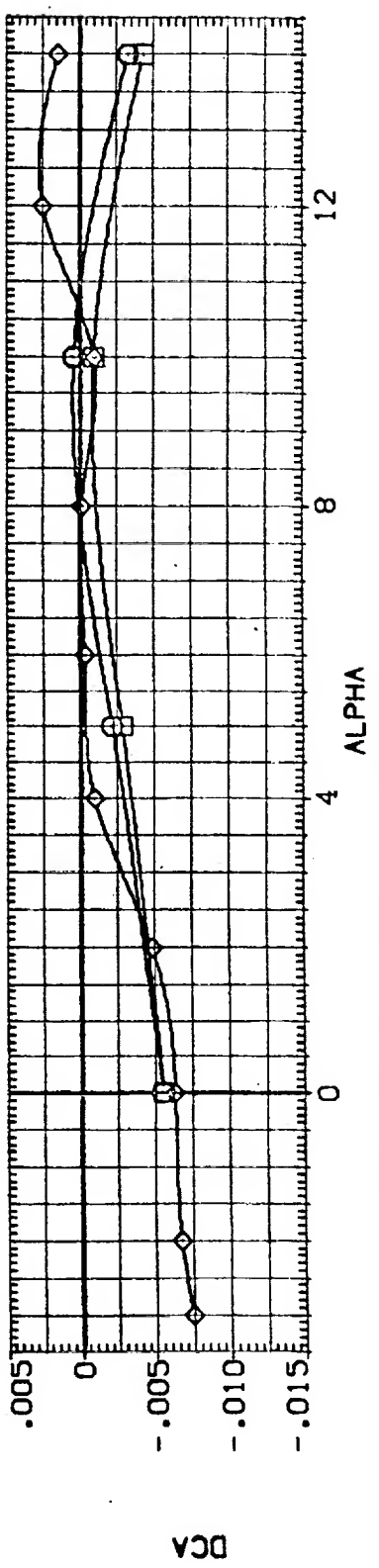
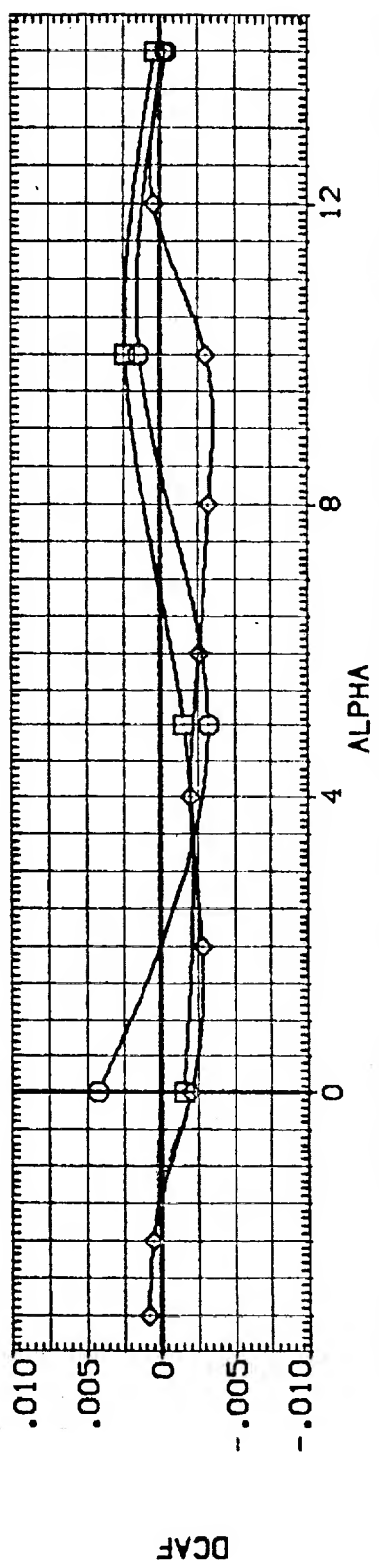
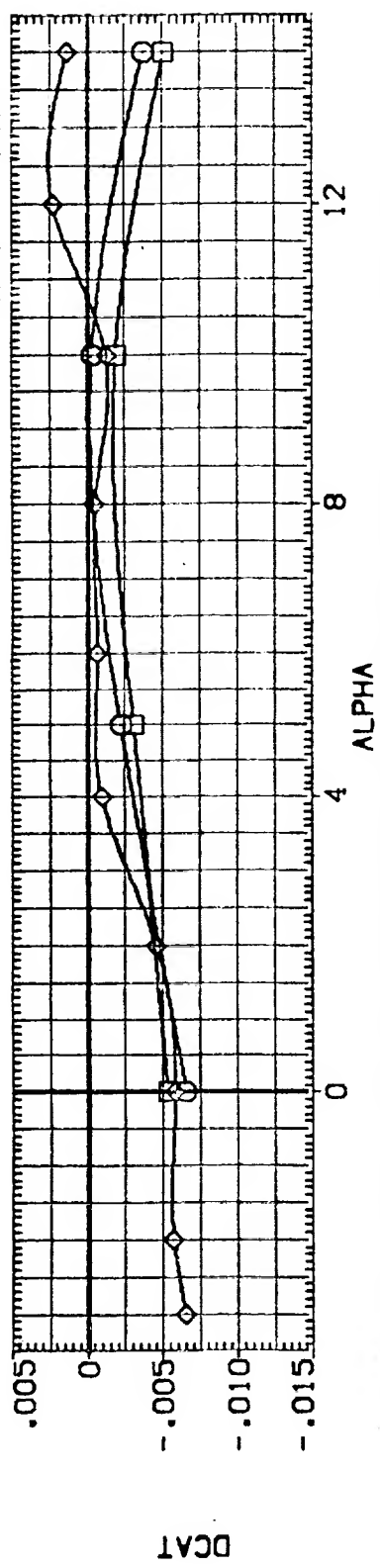


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(A)MACH = .60

DATA SET SYMBOL

(VERO12)

(VERO09)

(VERO13)

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(RS V81)+STRUT

DATA NOT AVAILABLE

ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA

.000

.000

.000

ELEVON

.000

.000

15.000

80° LAP

-11.700

-11.700

-11.700

REFERENCE INFORMATION

SREF

LREF

BREF

XMRP

YMRP

ZMRP

SCALE

.6053

.5935

1.1710

12.6255

.0000

-.3750

.0150

sq.ft.

ft.

in.

in.

in.

in.

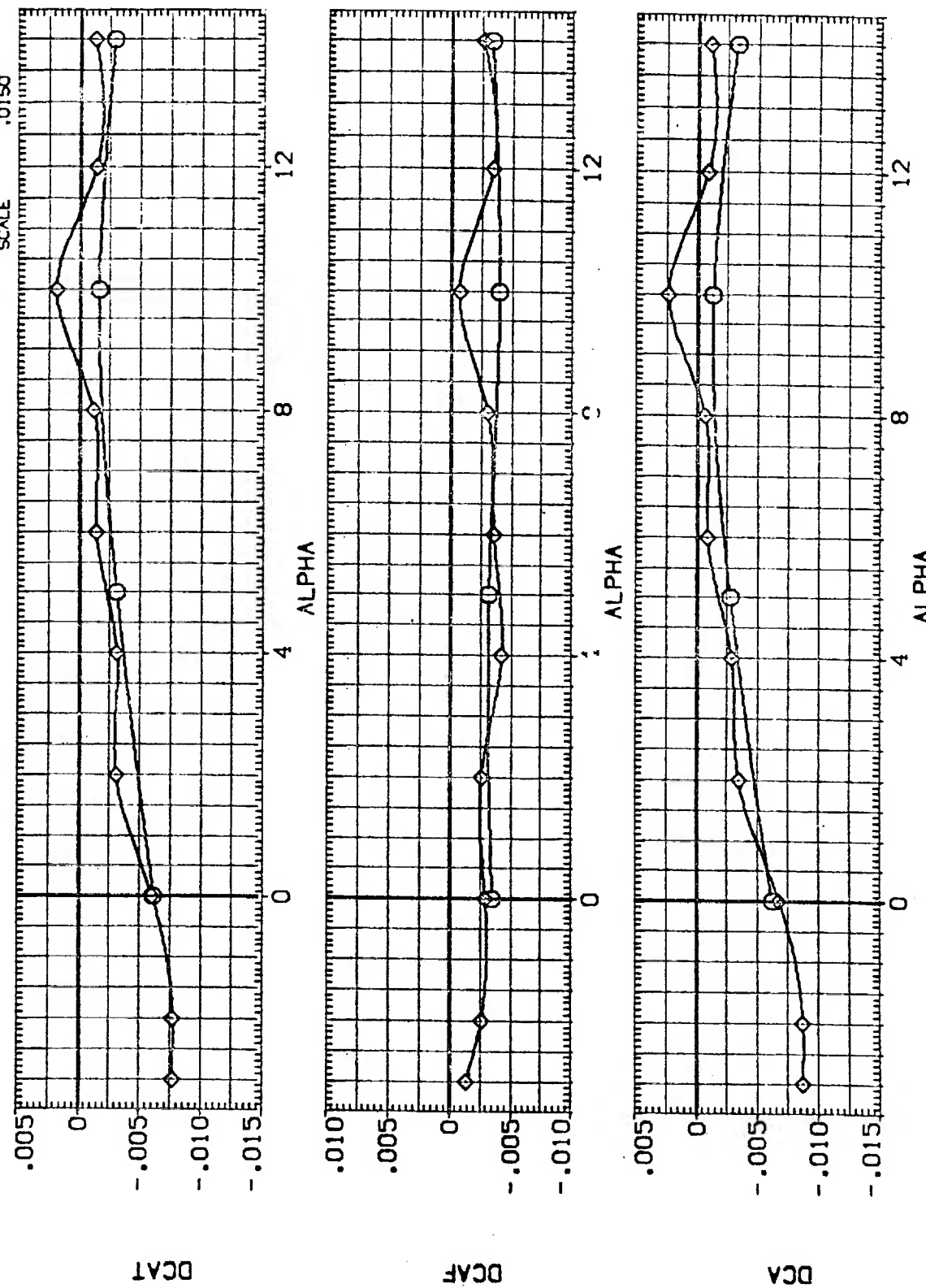


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(B)MACH = .70

DATA SET SYMBOL: (VER012)
 (VER009)
 (VER013)

CONFIGURATION DESCRIPTION:
 ARC 68-709 OAS9 OA11A-(RS VB1)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA: .000
 .000
 .000

ELEVON: .000
 .000
 15.000

BOFLAP: -11.700
 -11.700
 -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

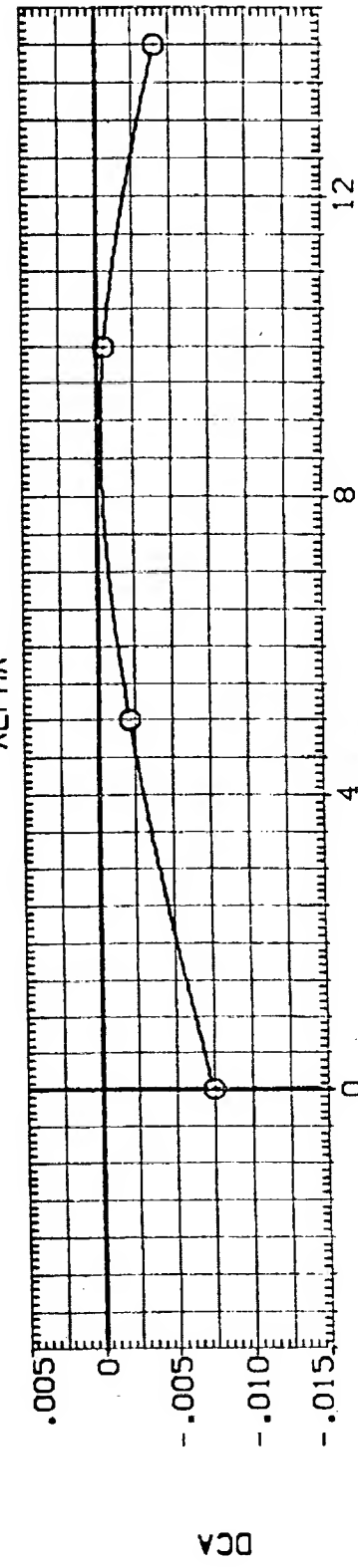
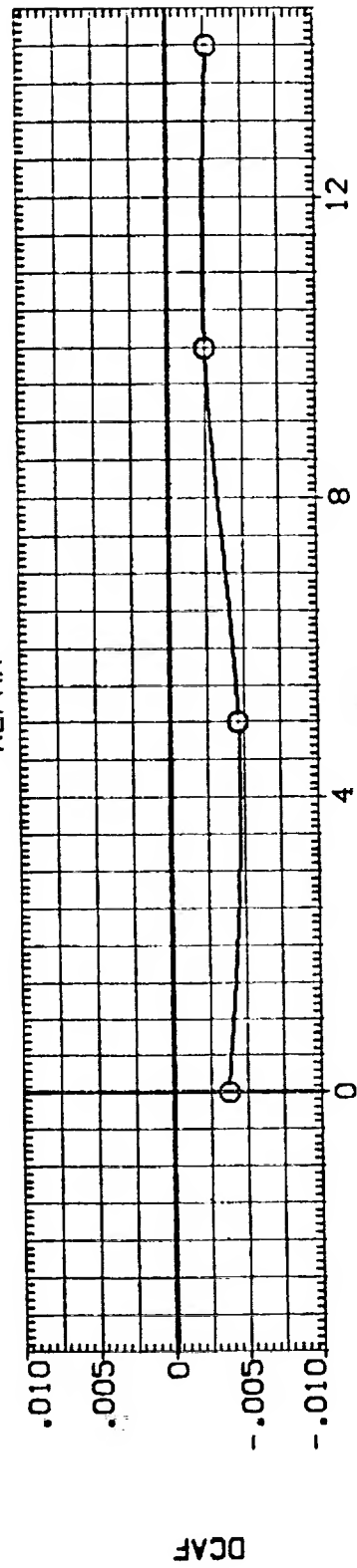
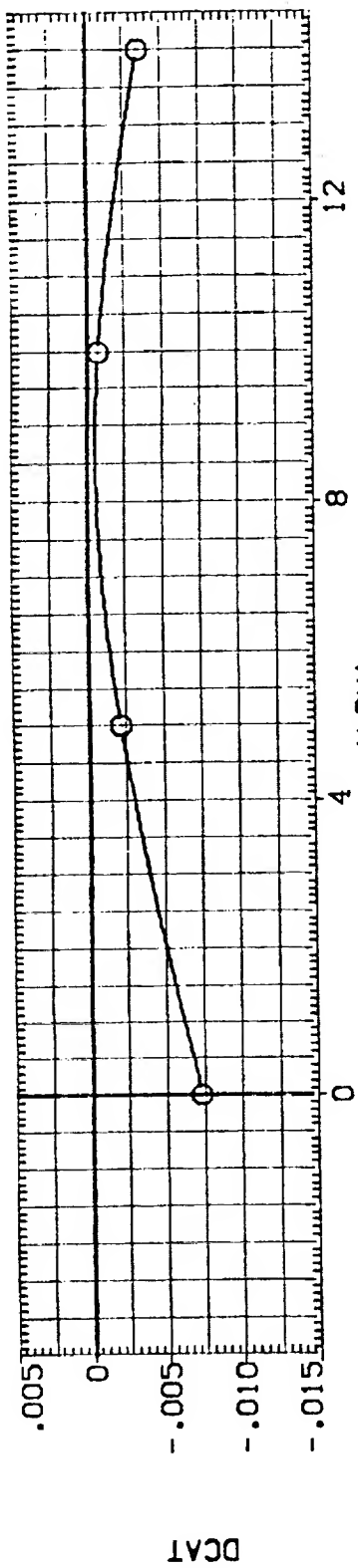


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 DALLA-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER009)	ARC 66-709 QAS9 DALLA-(N24 RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 QAS9 DALLA-(RS V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

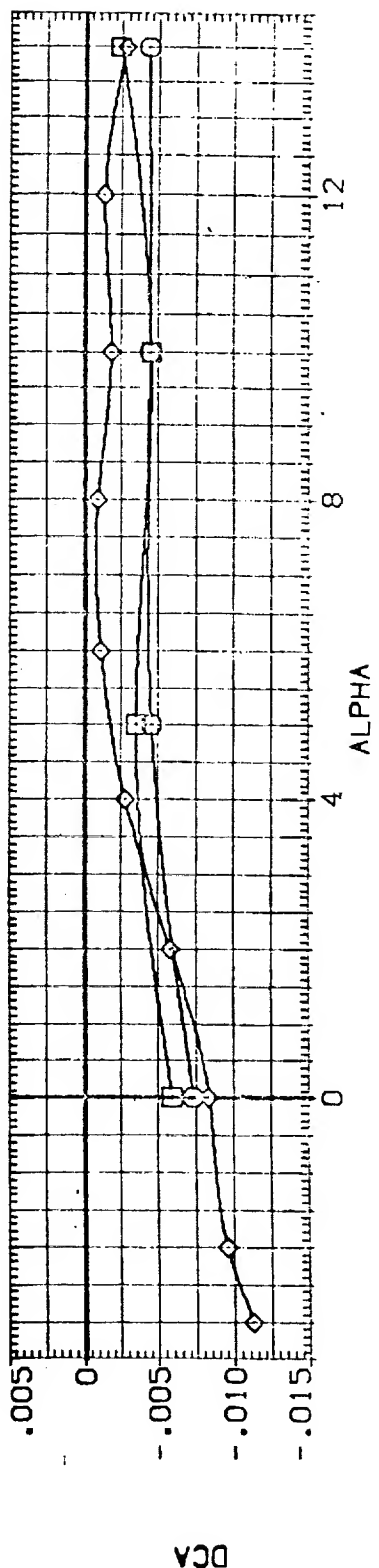
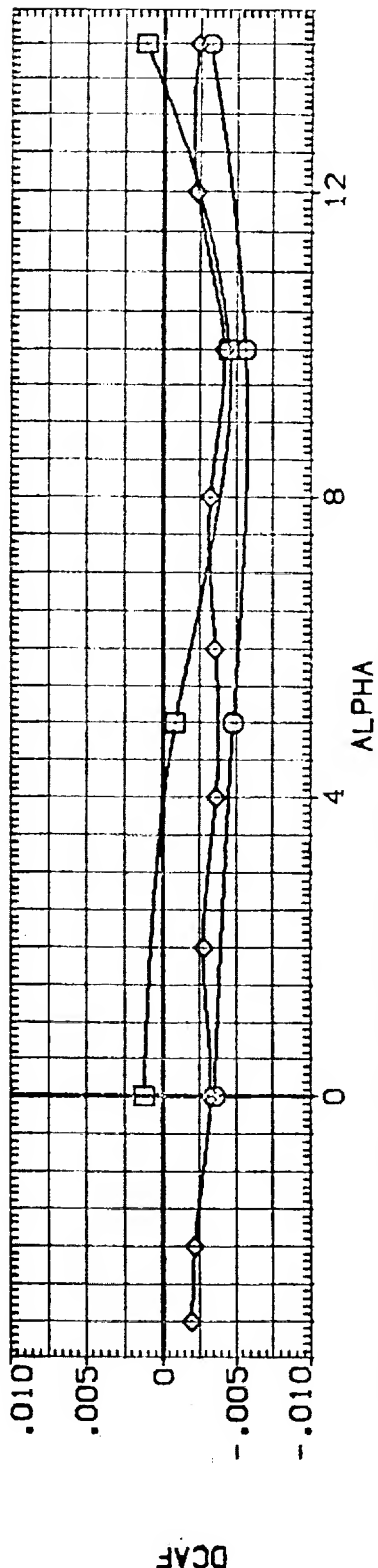
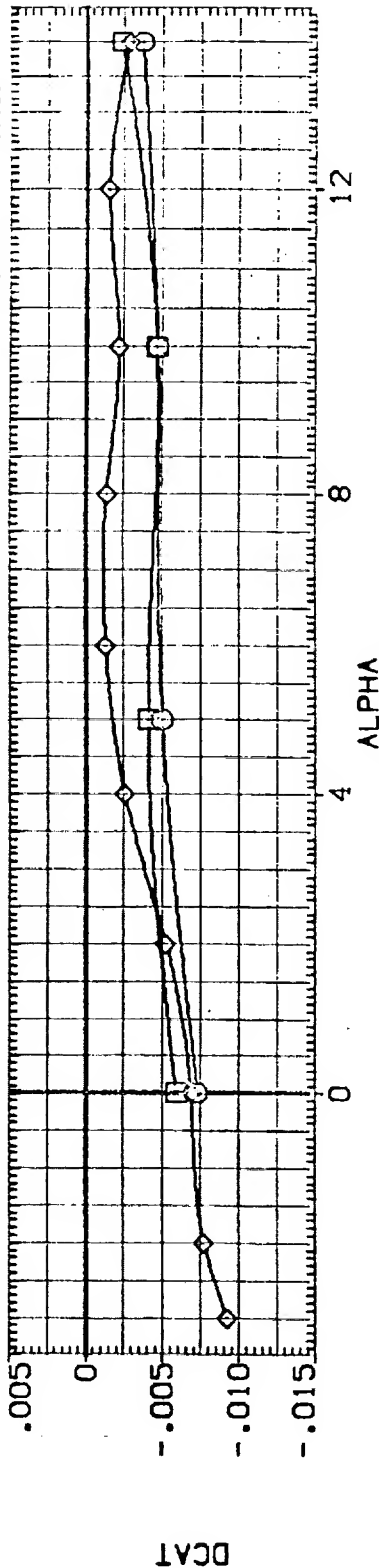


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(O)MACH = .80

DATA SET SYMBOL: (VER012) (VER009) (VER013)

CONFIGURATION DESCRIPTION: ARC 55-709 OAS9 0A11A-(RS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 -11.700 -11.700

REFERENCE INFORMATION: SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMR0 12.6255 IN.
YMR0 .0000 IN.
ZMR0 -.3750 IN.
SCALE .0150

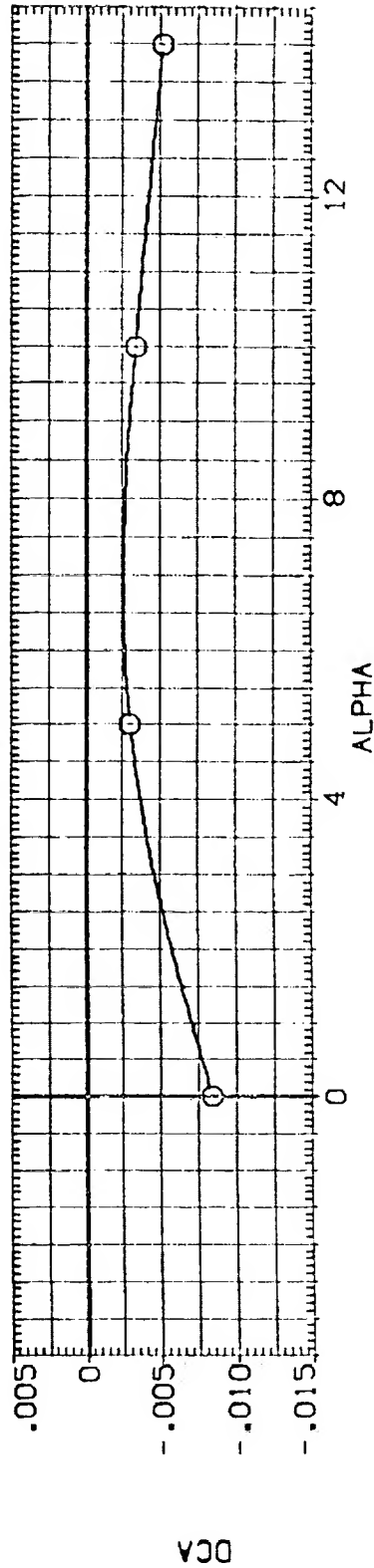
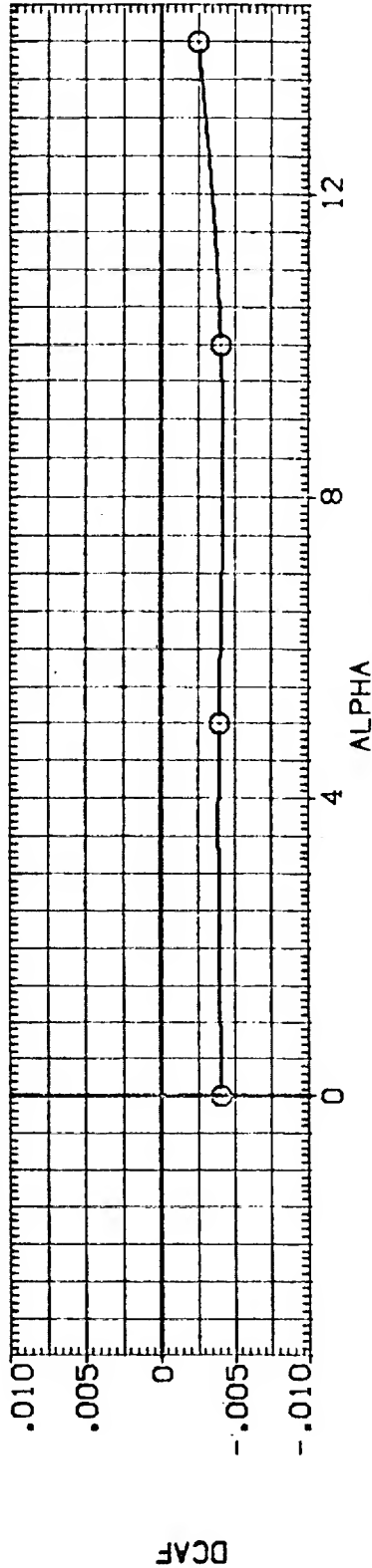
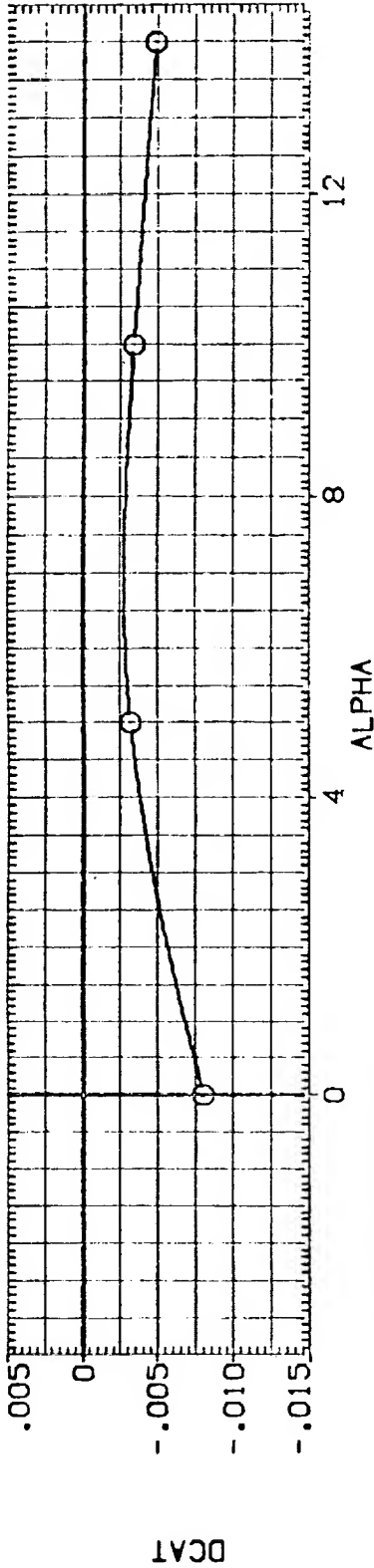


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASS DA11A-(RS VB1)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)	ARC 66-709 DASS DA11A-(N24 RS VB1)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 DASS DA11A-(RS VB1)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

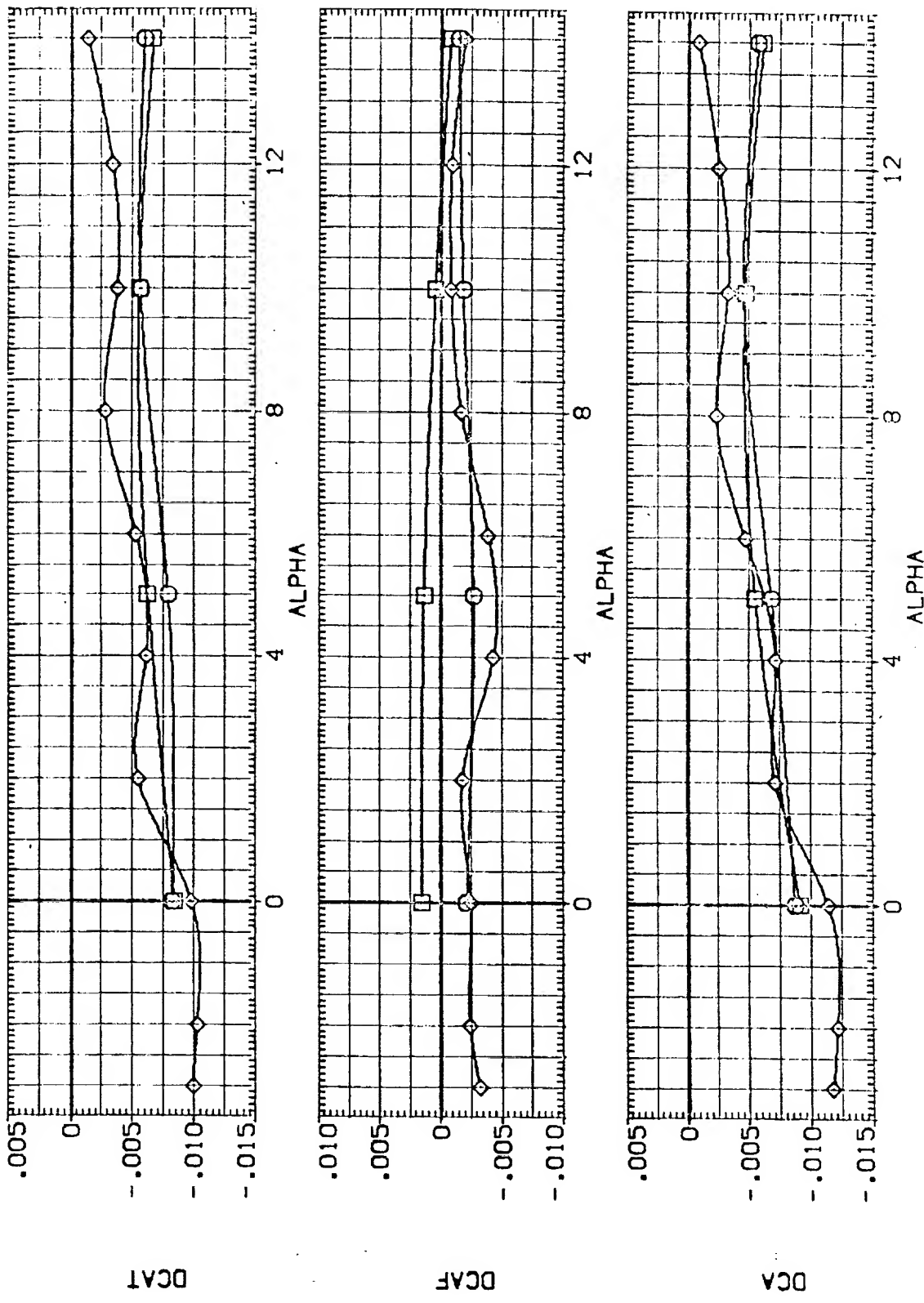



FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(F)MACH = .90

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:
 (VER012) ARC 66-709 OAS9 DA11A-(R5 V81)+STRUT
 (VER009) DATA NOT AVAILABLE
 (VER013) DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

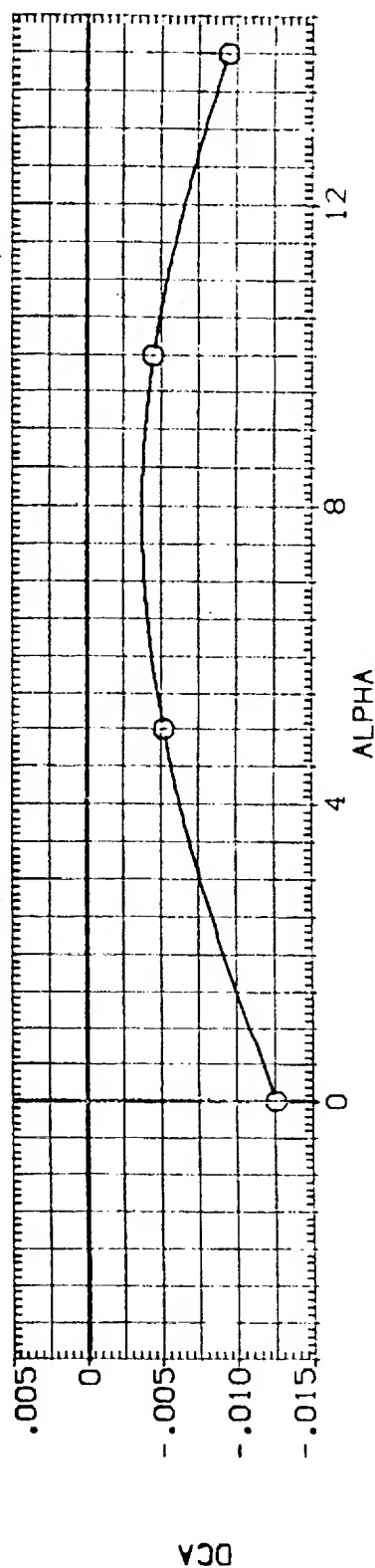
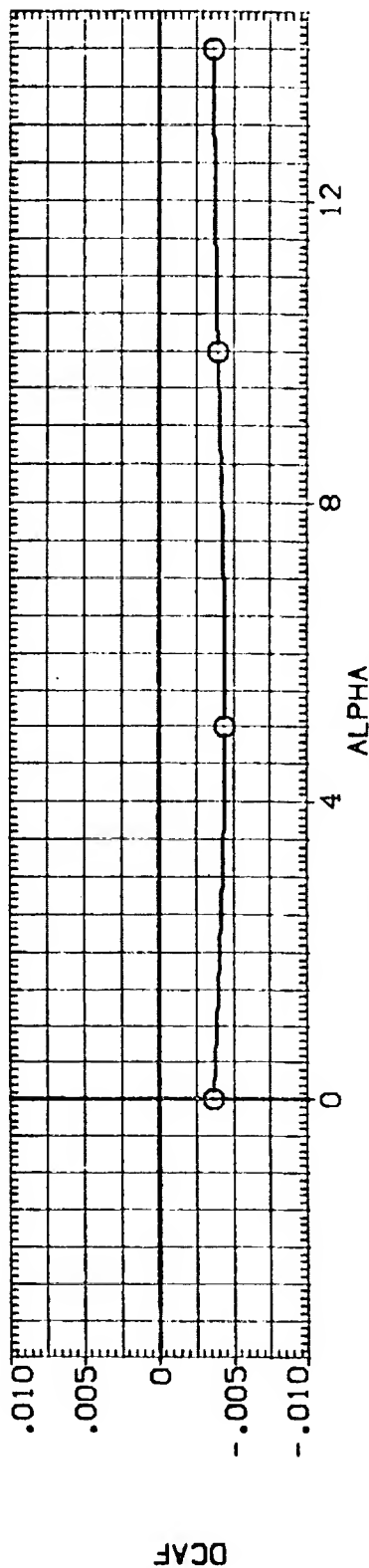
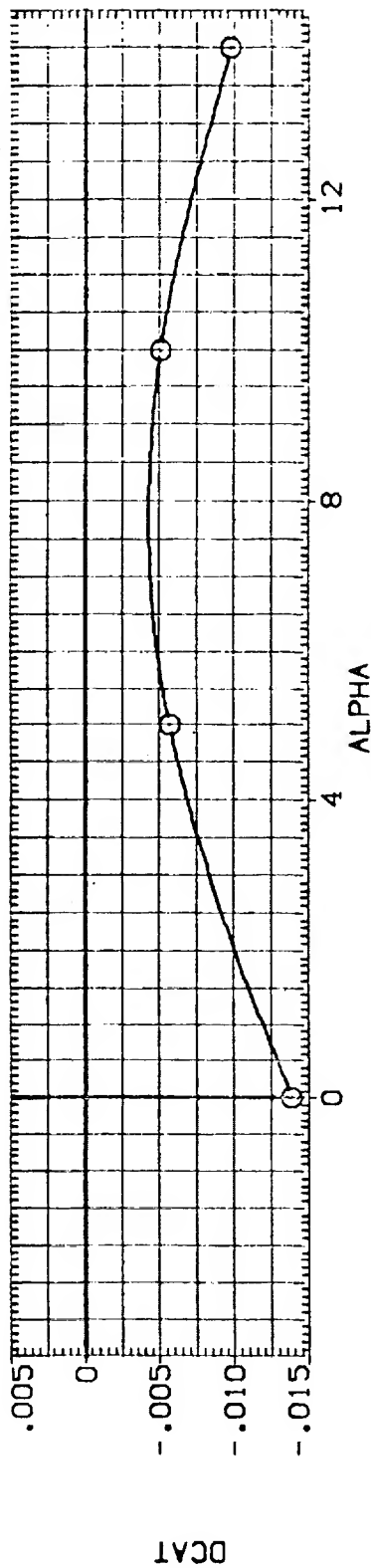


FIG. 7 PITCH TARES FOR DEFLECTED ELEVLONS

(G)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)		ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER009)		ARC 66-709 0A59 0A11A-(N24 R5 V8)*STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)		ARC 66-709 0A59 0A11A-(R5 V8)*STRUT	.000	15.000	-11.700	BREF 1.1710 FT.
						XMRP 12.6255 IN.
						YMRP .0000 IN.
						ZMRP -.3750 IN.
						SCALE .0150

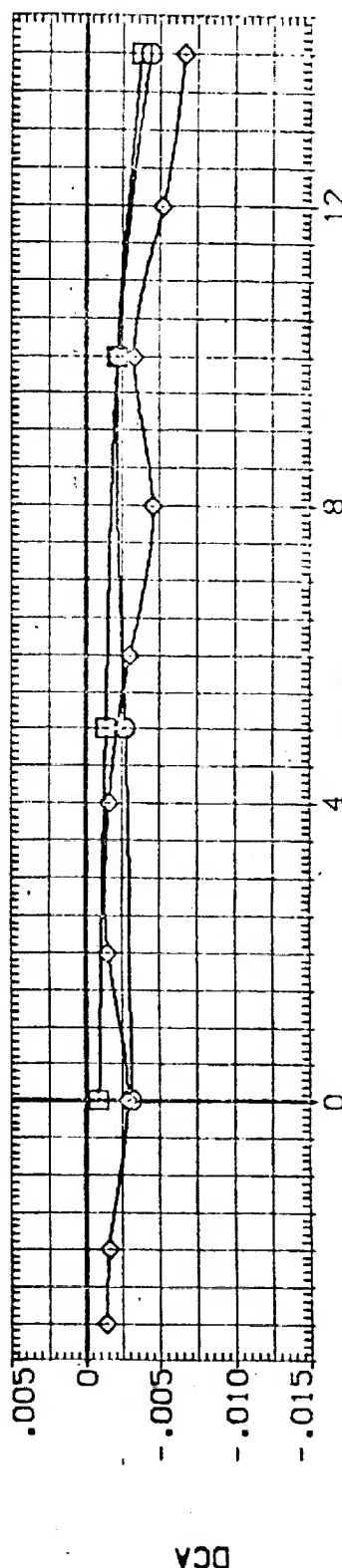
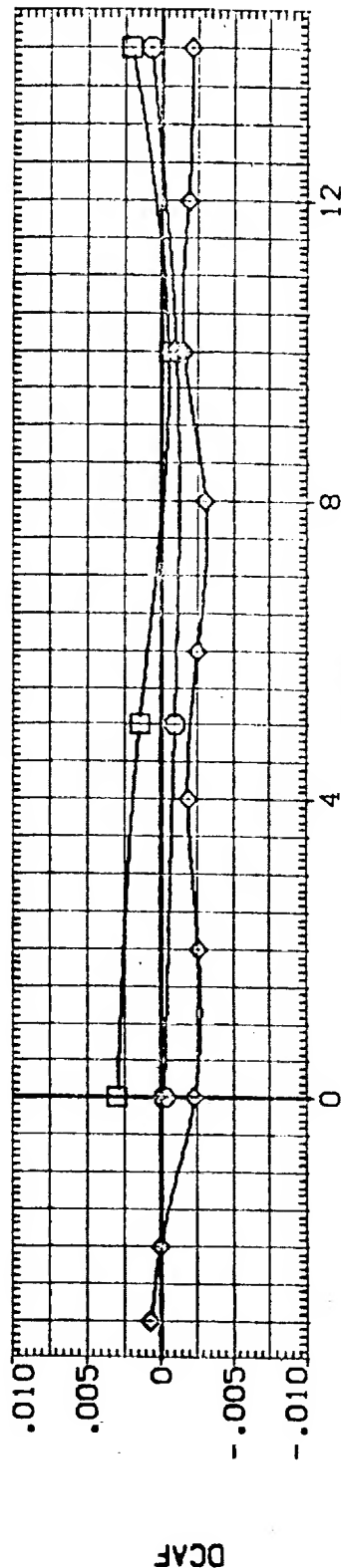
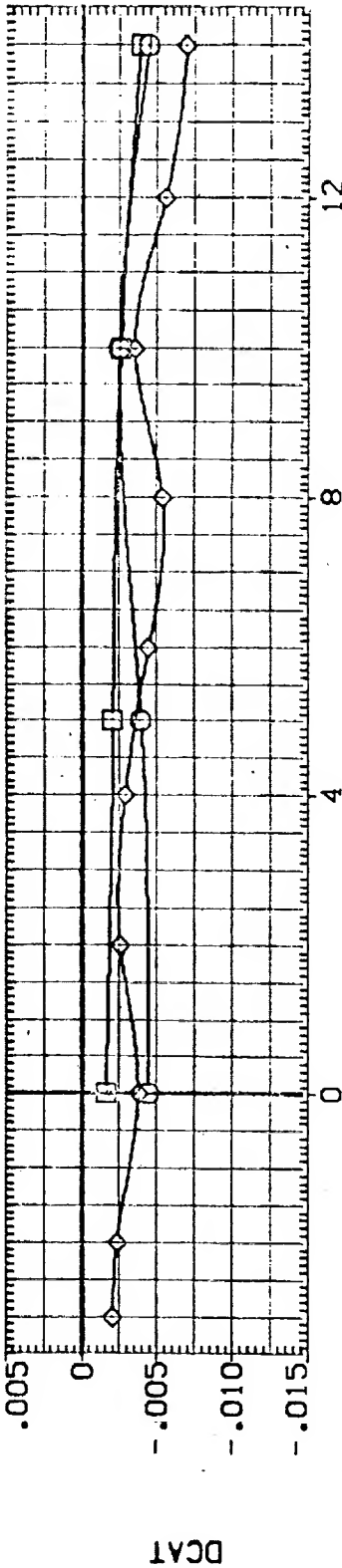





FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(M)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VER012)  ARC 65-709 QAS9 0A11A-(P5 V8)+STRUT

(VER003)  ARC 65-709 QAS9 0A11A-(N24 R5 V8)+STRUT

(VER013)  ARC 65-709 QAS9 0A11A-(P5 V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

.000 15.000 -11.700

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

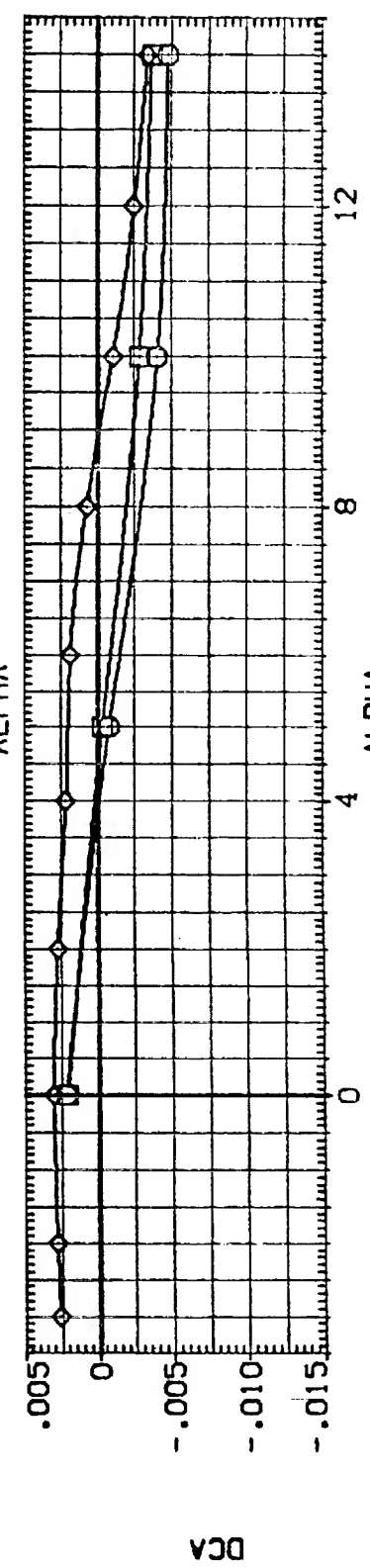
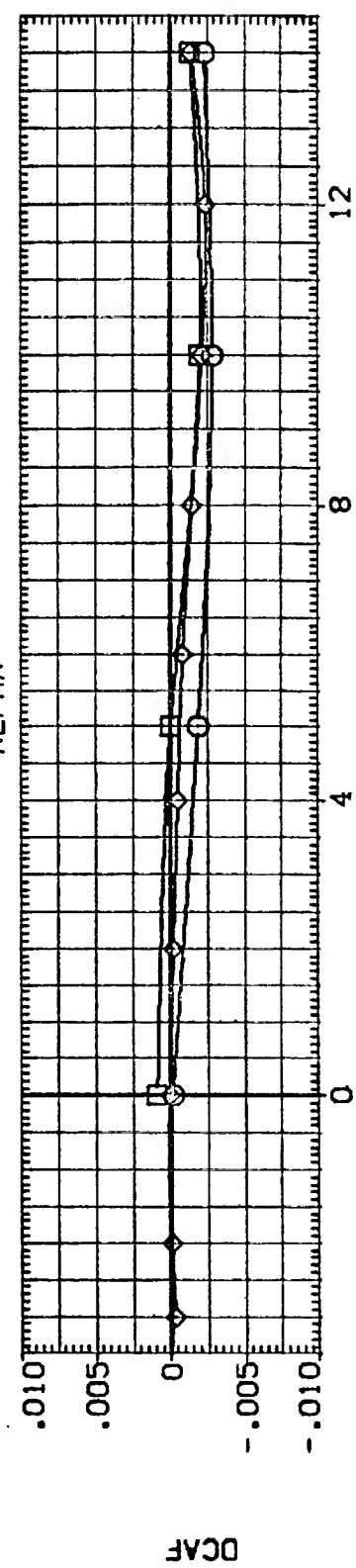
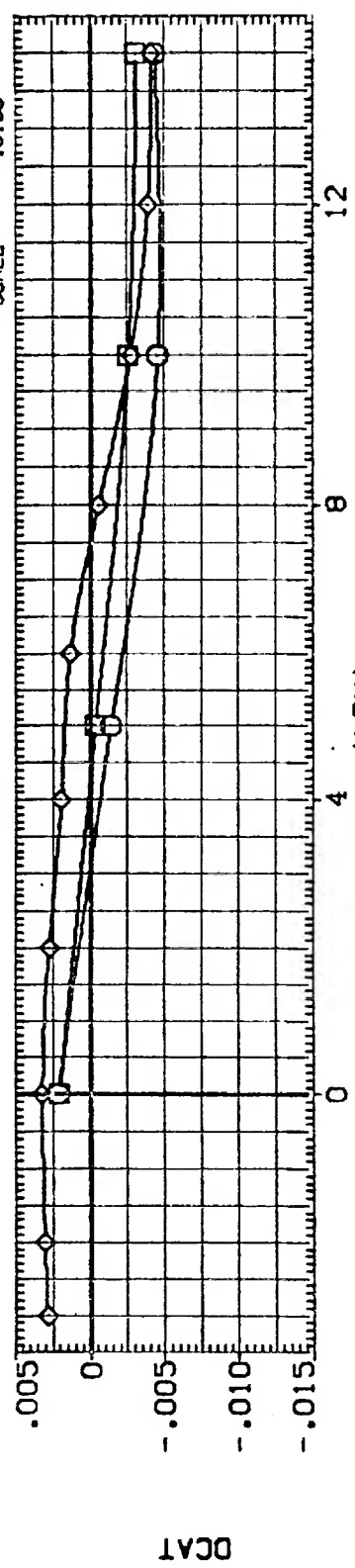


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER008)	ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
(VER013)	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	15.000	-11.700	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

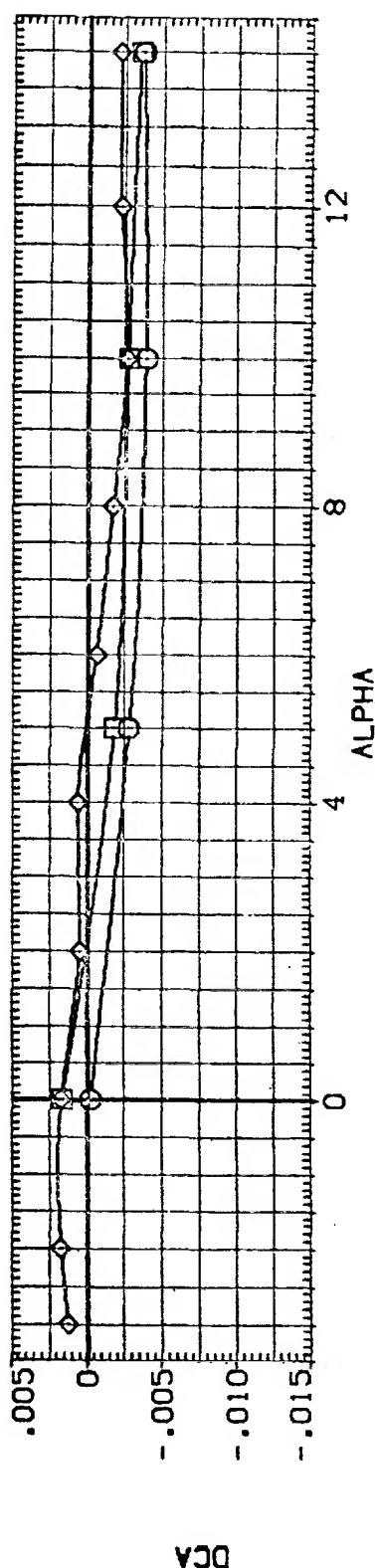
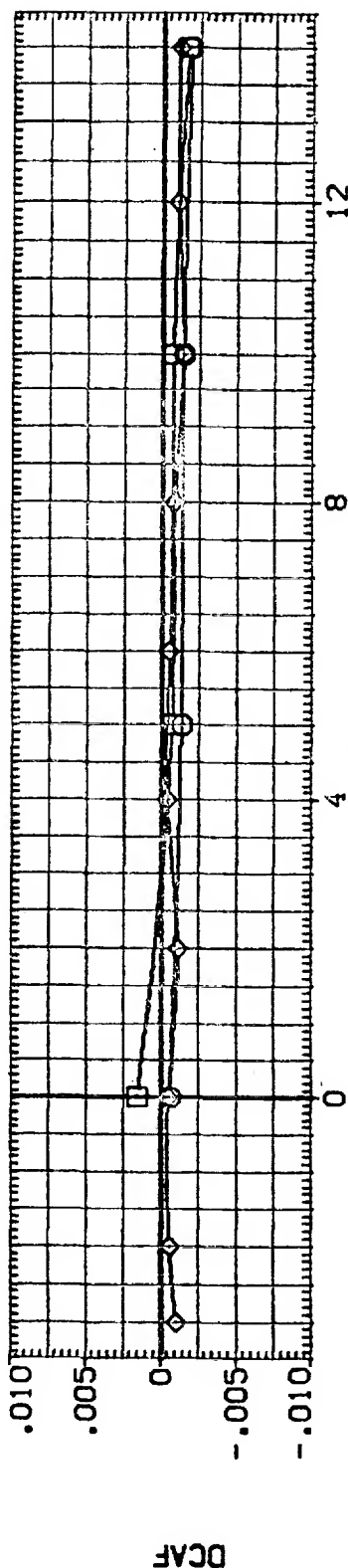
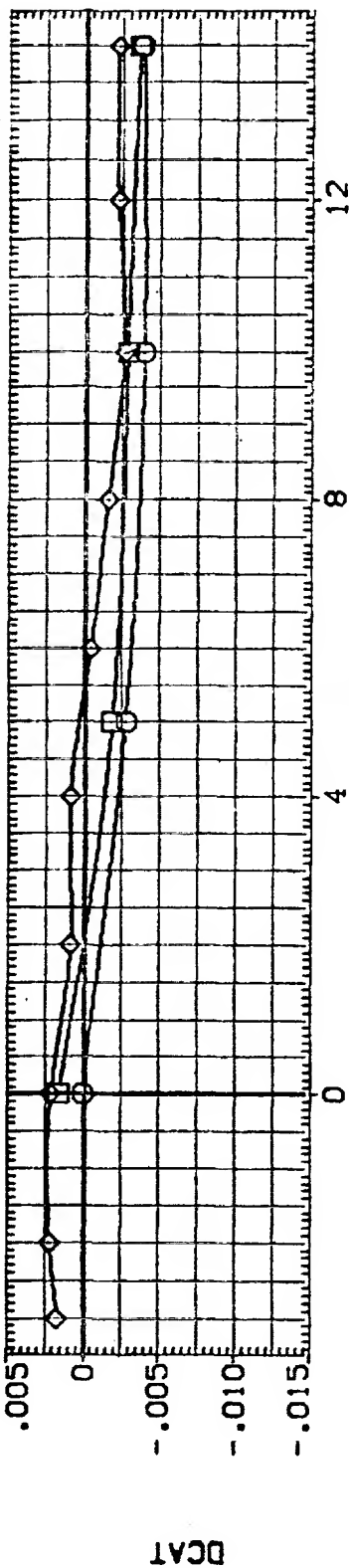


FIG. 7 PITCH TARES FOR DEFLECTED ELEVONS

(J)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UERO12) ARC 66-709 0A59 0A11A-(R5 V81)*STRUT
 (UERO14) ARC 66-709 0A59 0A11A-(R5 V81)*STRUT
 (UERO15) ARC 66-709 0A59 0A11A-(R5 V81)*STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -3.750 IN.
 SCALE .0150

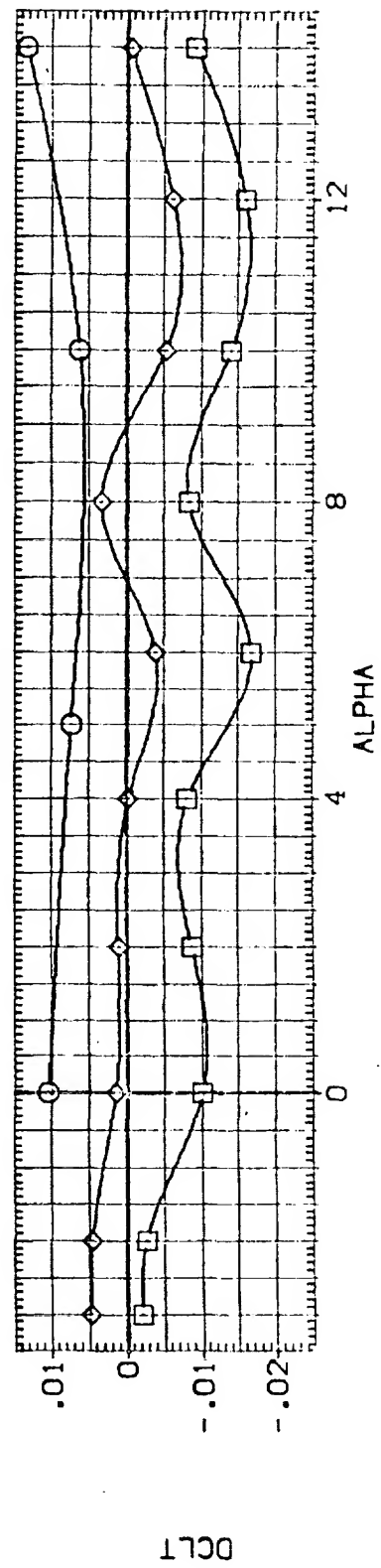
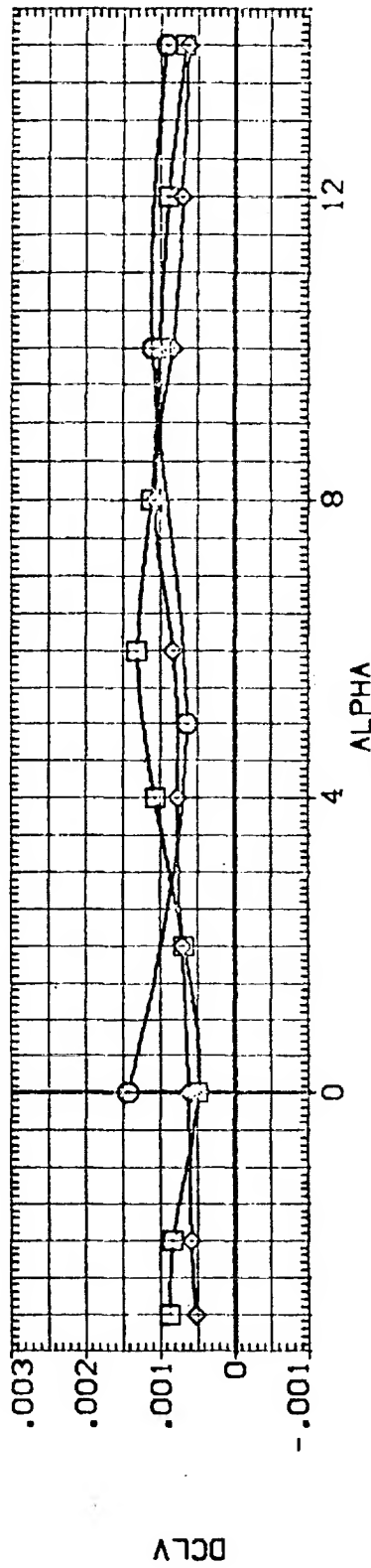
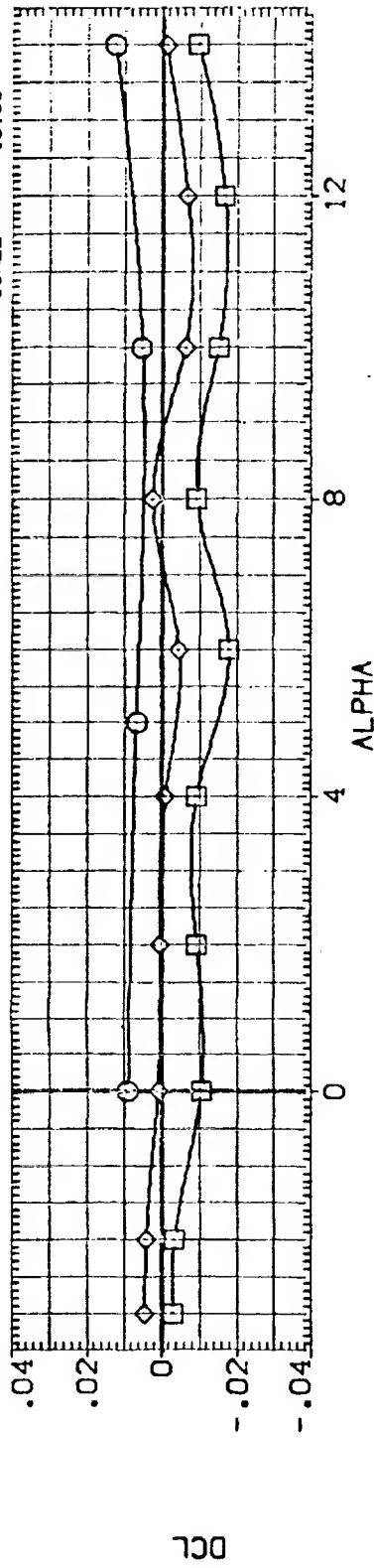


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{UER012}	ARC 66-709 DAI1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{UER014}	ARC 66-709 DAI1A-(R5 V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
{UER015}	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

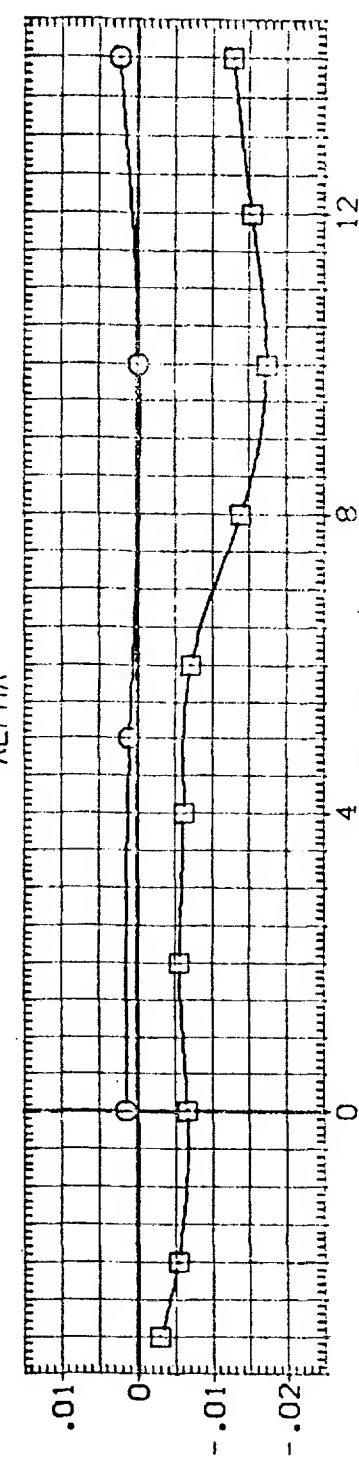
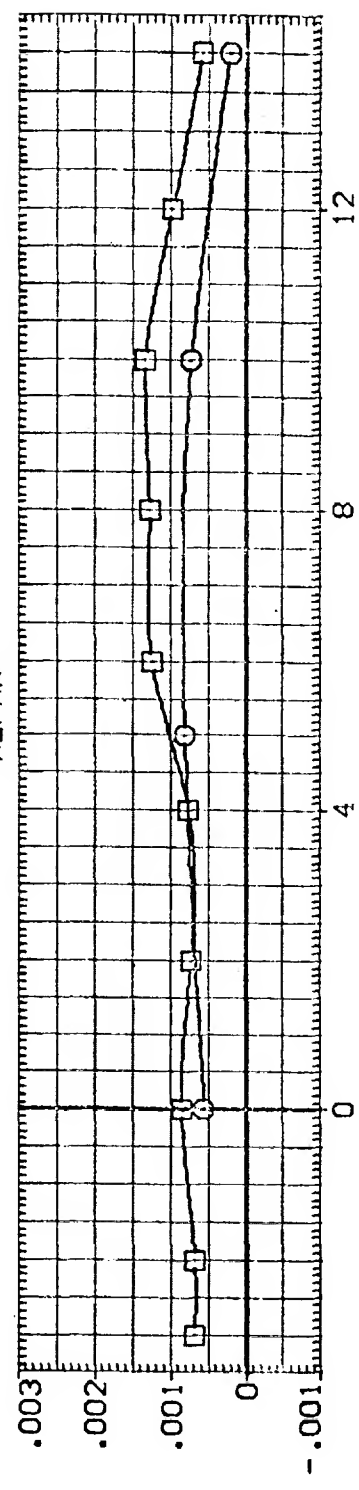
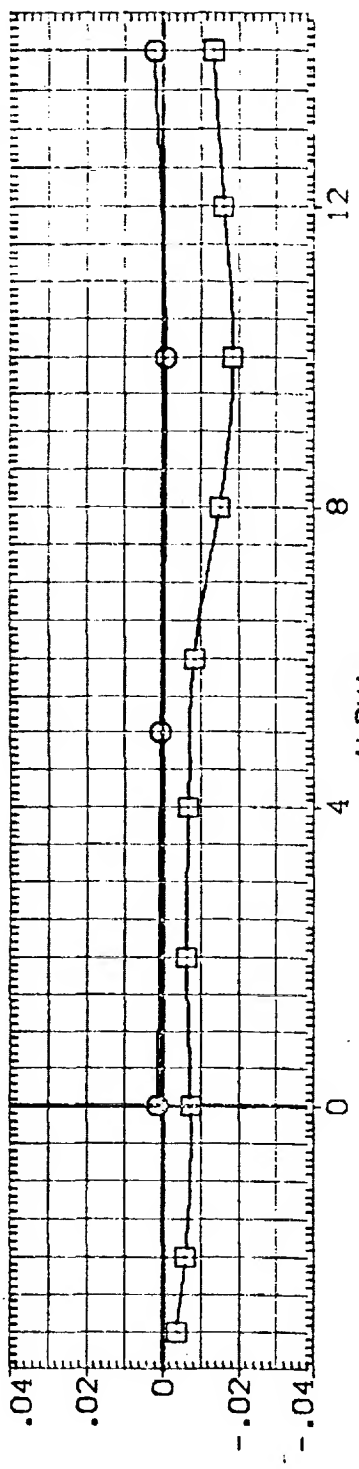


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)

CONFIGURATION DESCRIPTION: ARC 66-709 0A59 0A11A-(PS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 16.300 .000

REFERENCE INFORMATION: SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

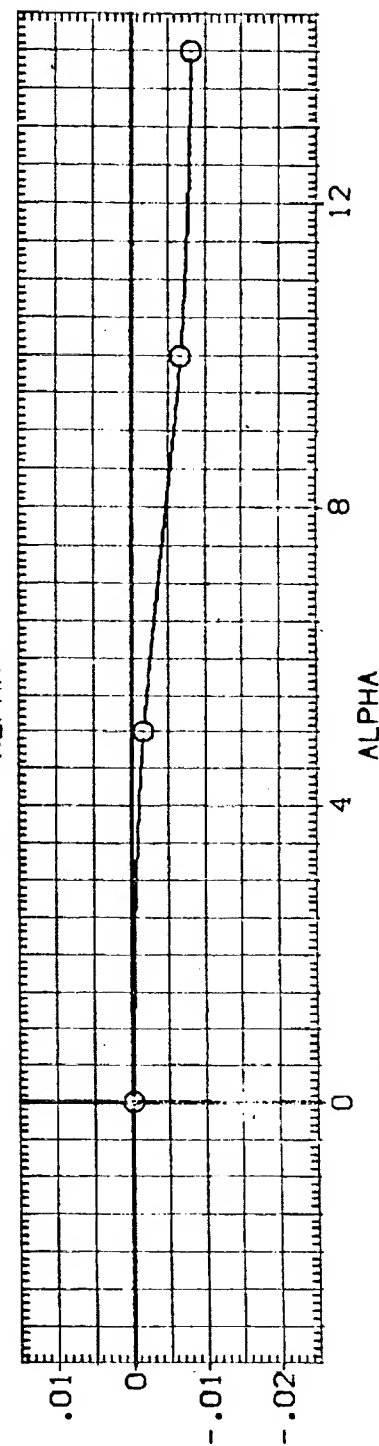
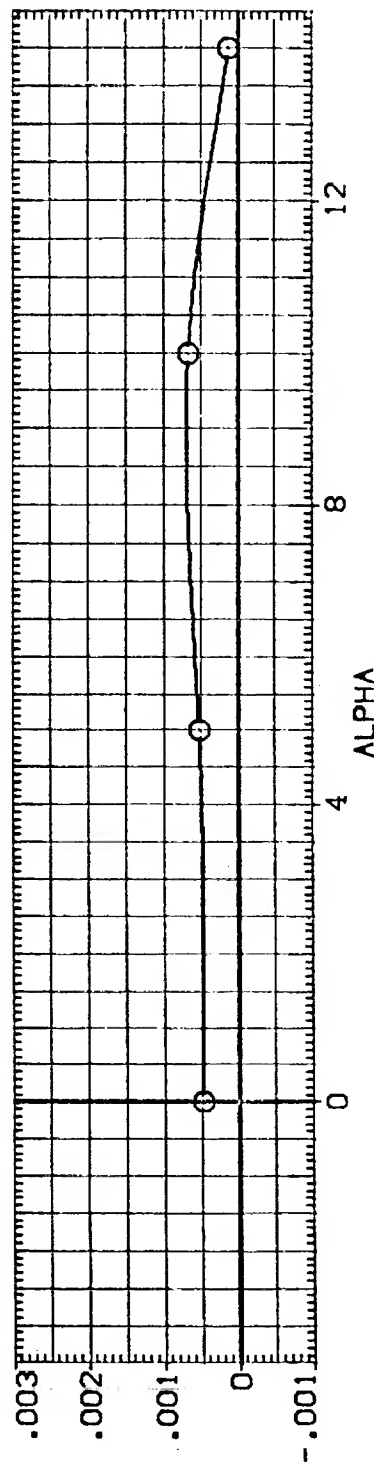
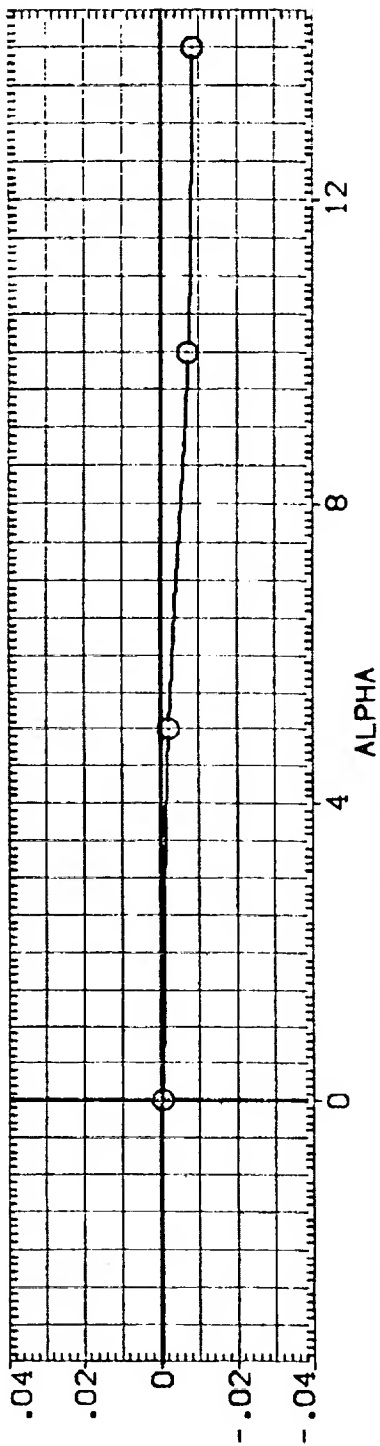
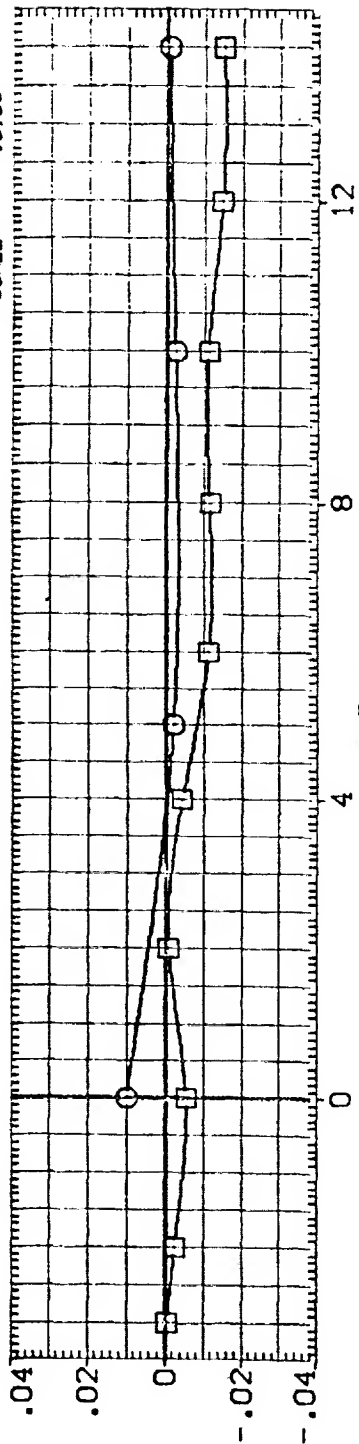


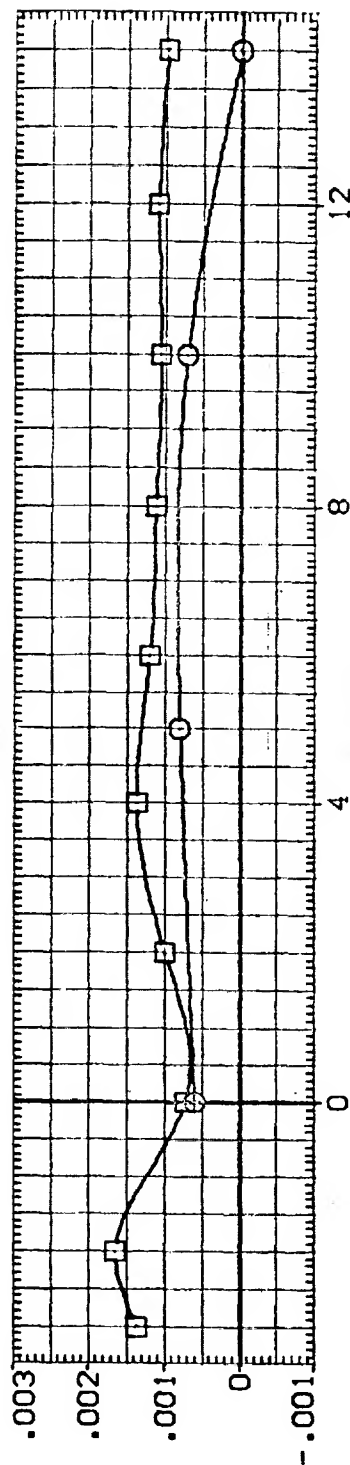
FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

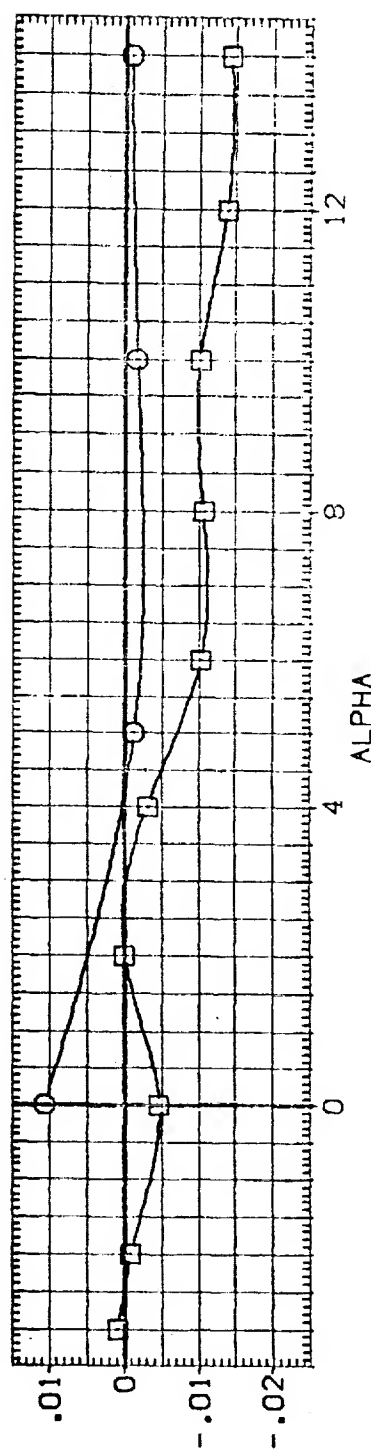
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 OAS9 DALLA-(RS V81)+STRUT	.000	.000	-11.700	SREF -6053 SQ.FT.
(UERO14)	ARC 66-709 OAS9 DALLA-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150



DCL



DCLV



DCLT

FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{UER012} ARC SS-709 OAS9 0A11A-(RS V81)-STRUT

{UER014} DATA NOT AVAILABLE

{UER015} DATA NOT AVAILABLE

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

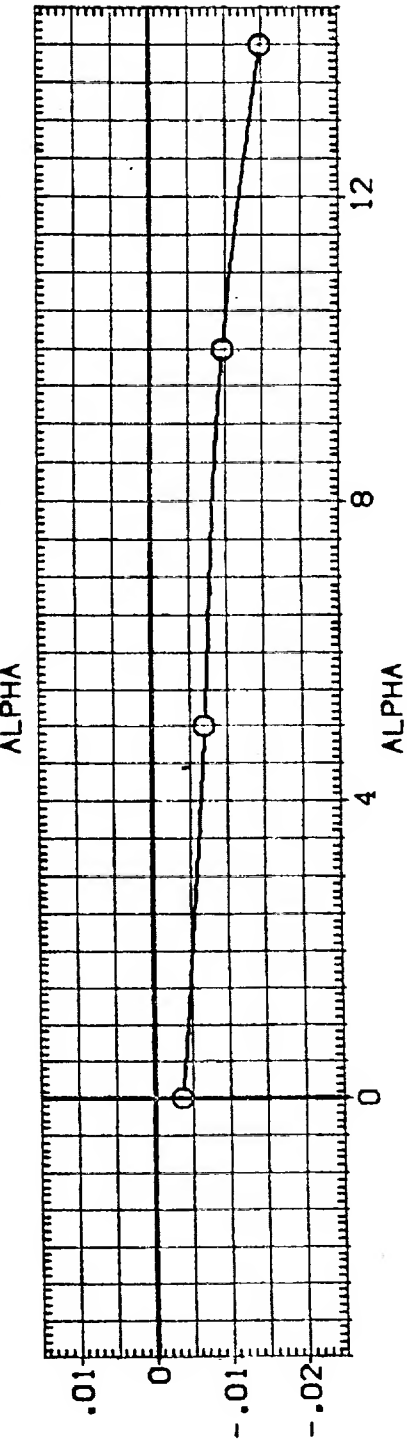
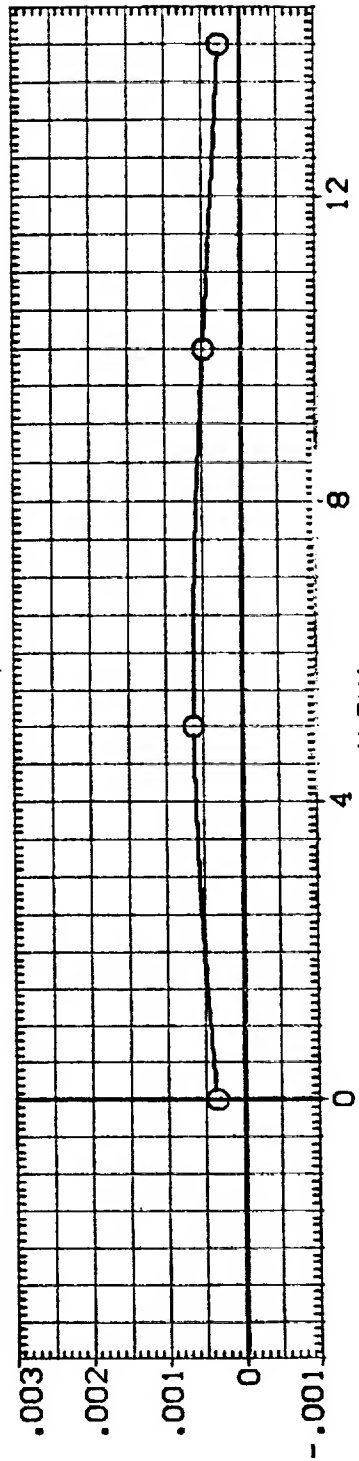
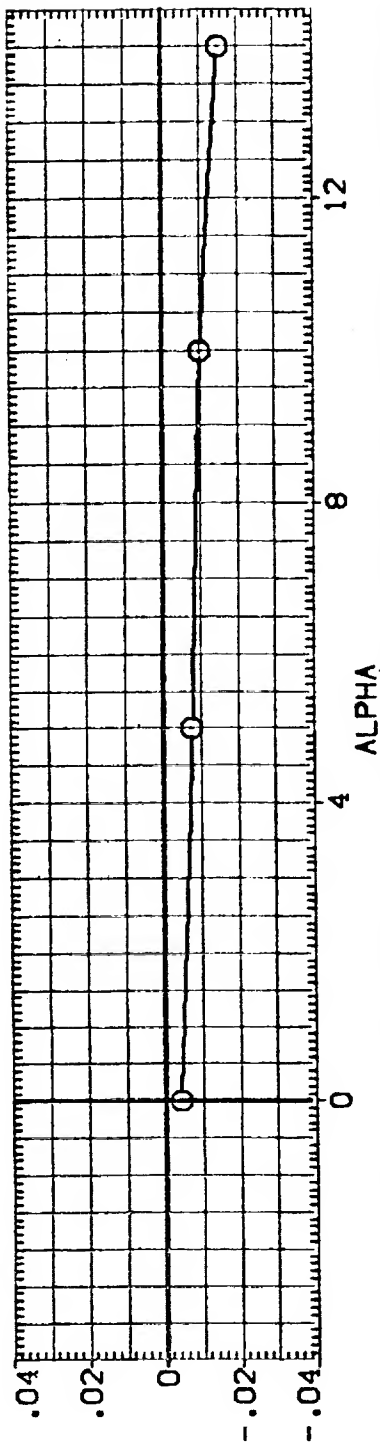


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{UERO12} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

{UERO14} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

{UERO15} ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

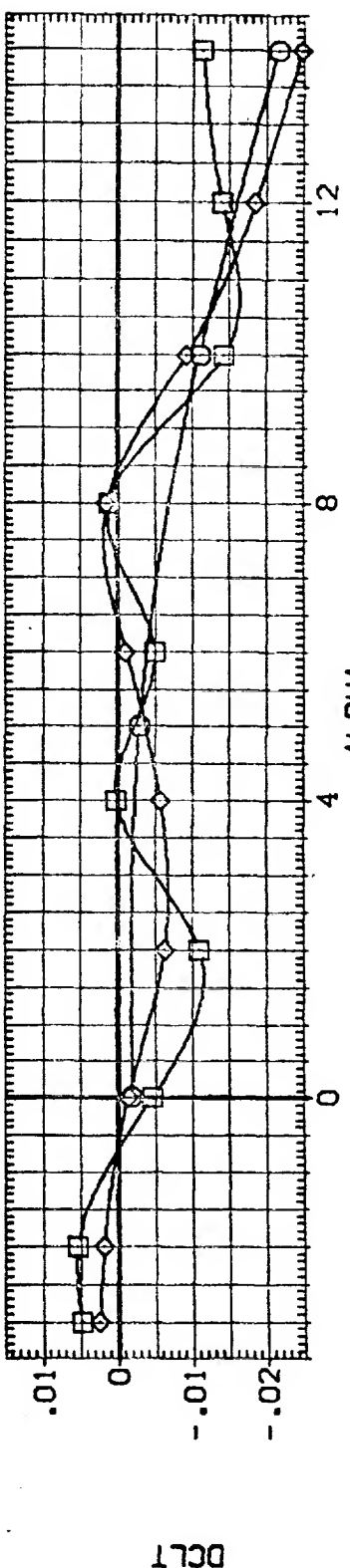
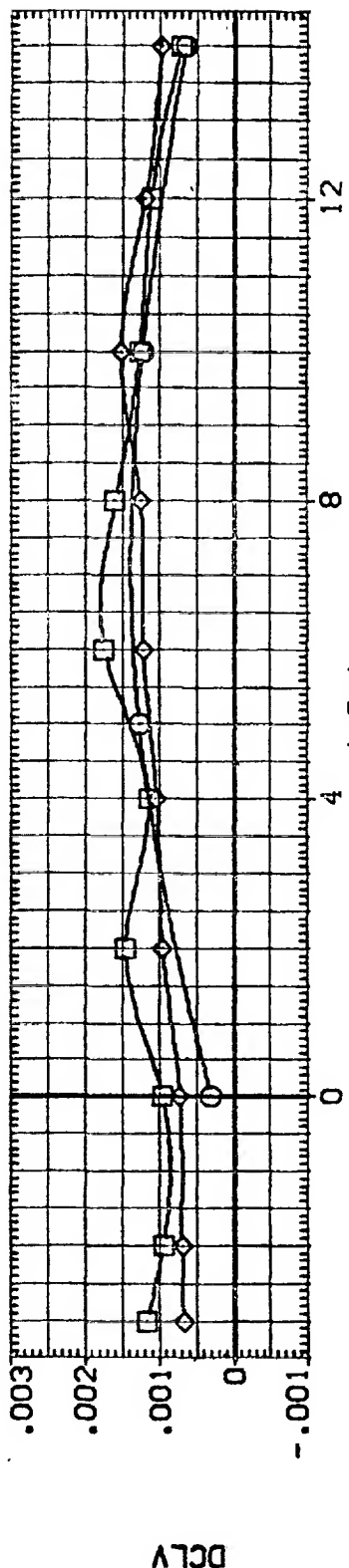
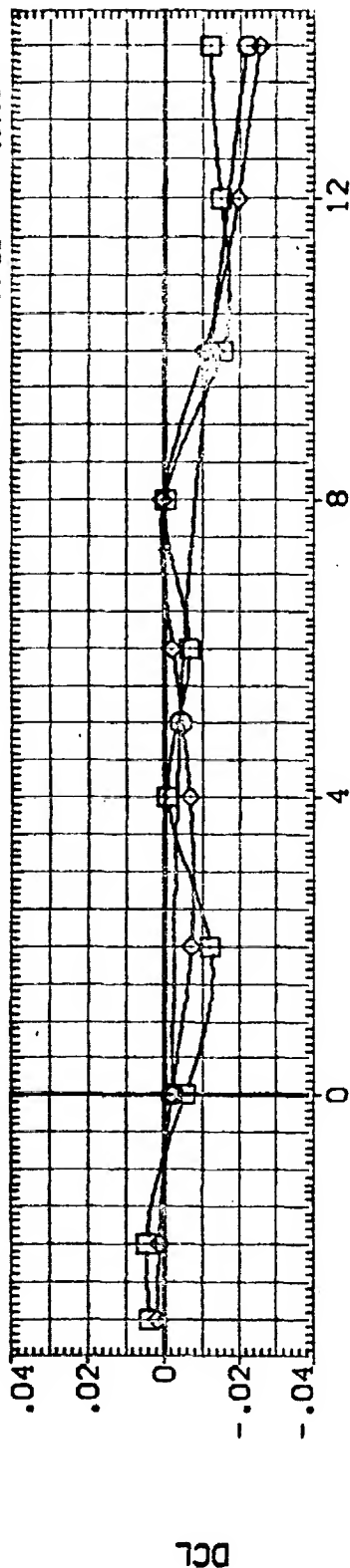


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)
 CONFIGURATION DESCRIPTION: ARC 66-709 OAS9 GALLA-(RS V8)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: .8053 50.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

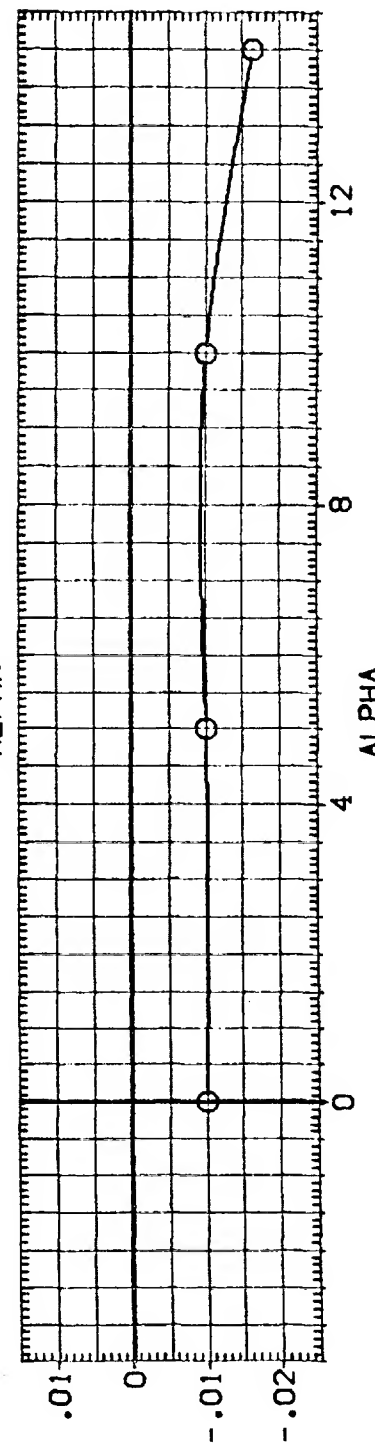
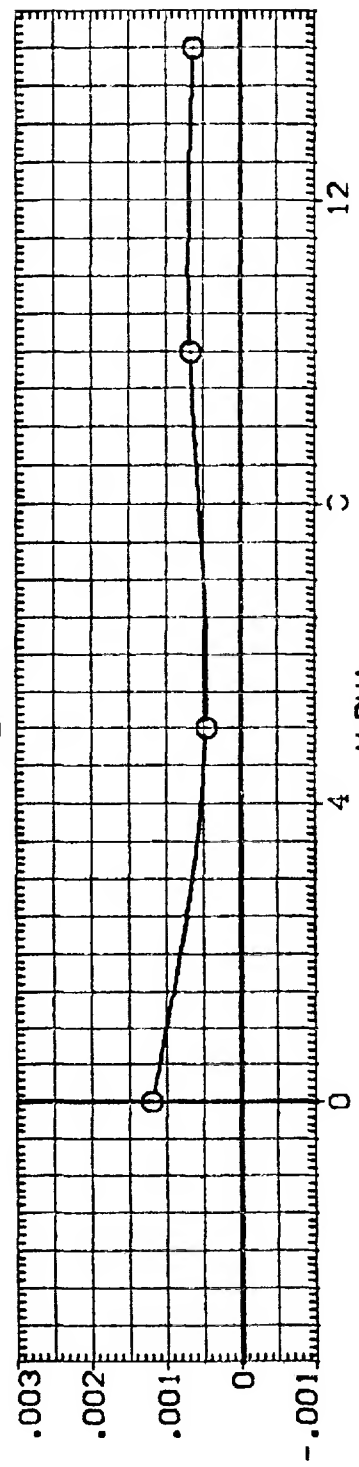
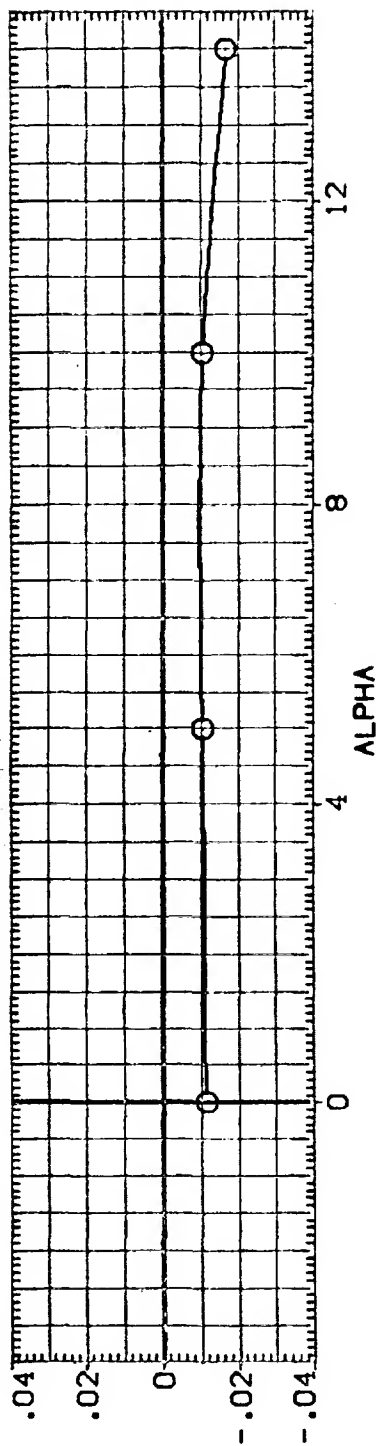


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBO. CONFIGURATION DESCRIPTION

(LERO12) ARC 66-709 DASS DALLA-(RS V8)+STRUT

(LERO14) ARC 66-709 DASS DALLA-(RS V8)+STRUT

(LERO15) ARC 66-709 DASS DALLA-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

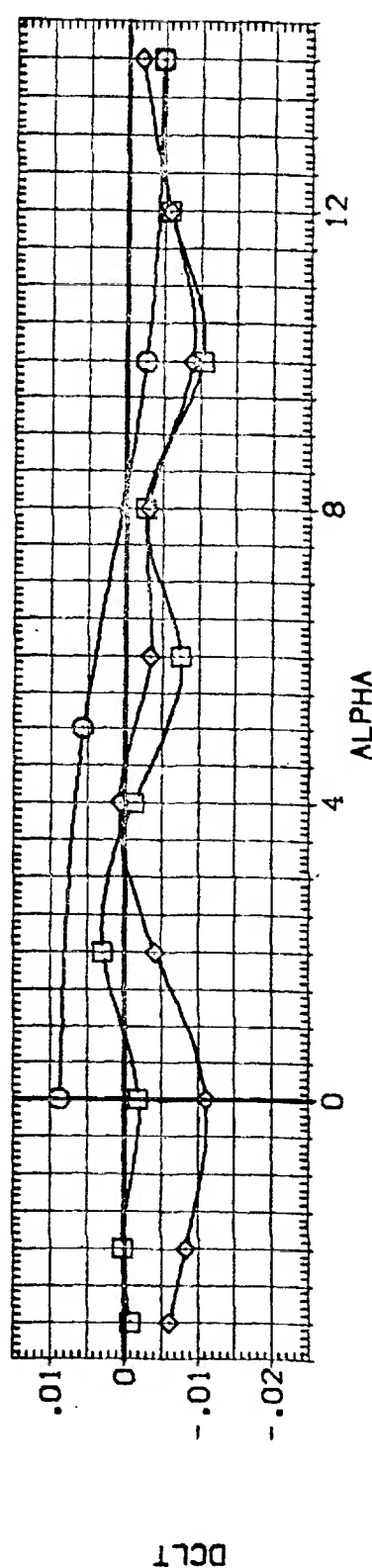
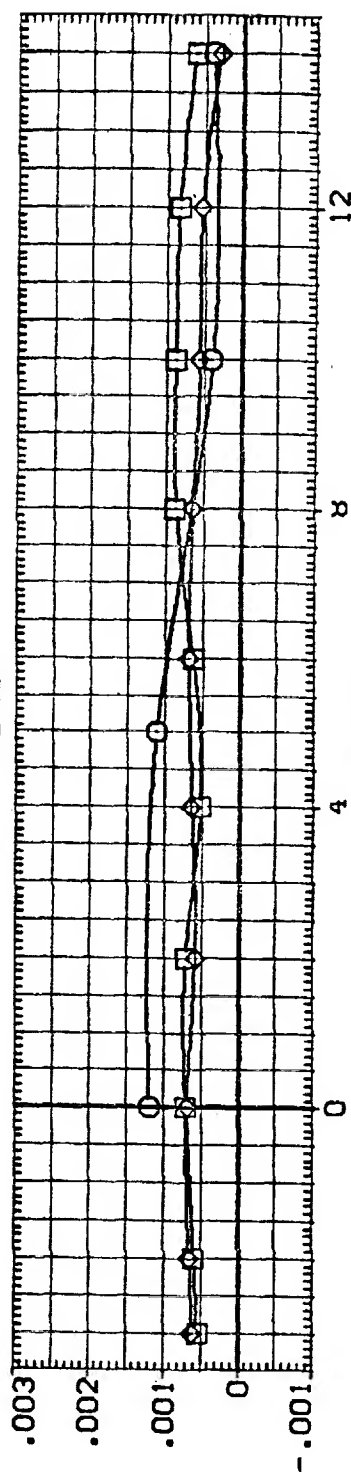
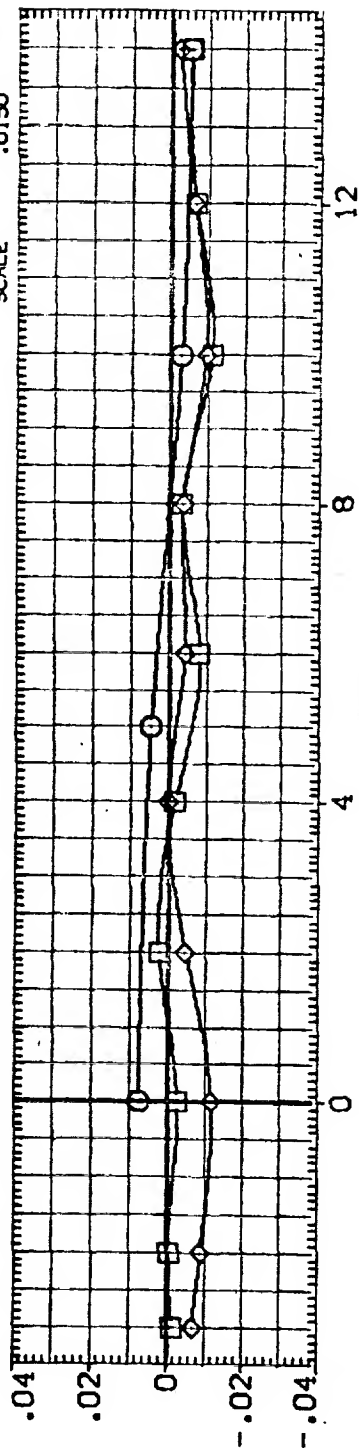


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UERO12) ARC 66-709 0A59 0A11A-(RS V3)+STRUT
 (UERO14) ARC 66-709 0A59 0A11A-(RS V3)+STRUT
 (UERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SPREF .6053 50.FT.
 LREF .5935 FT.
 BRPF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

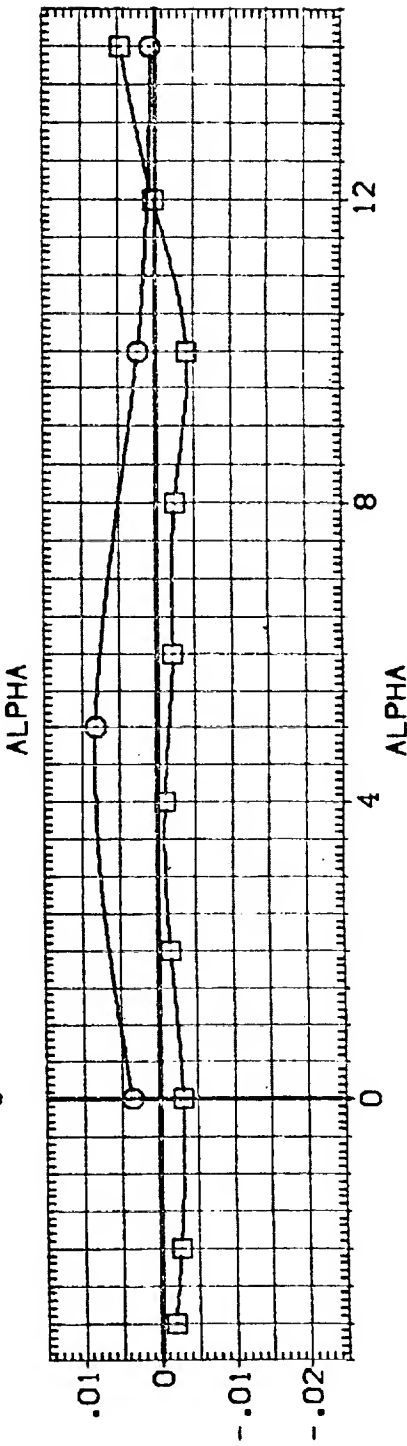
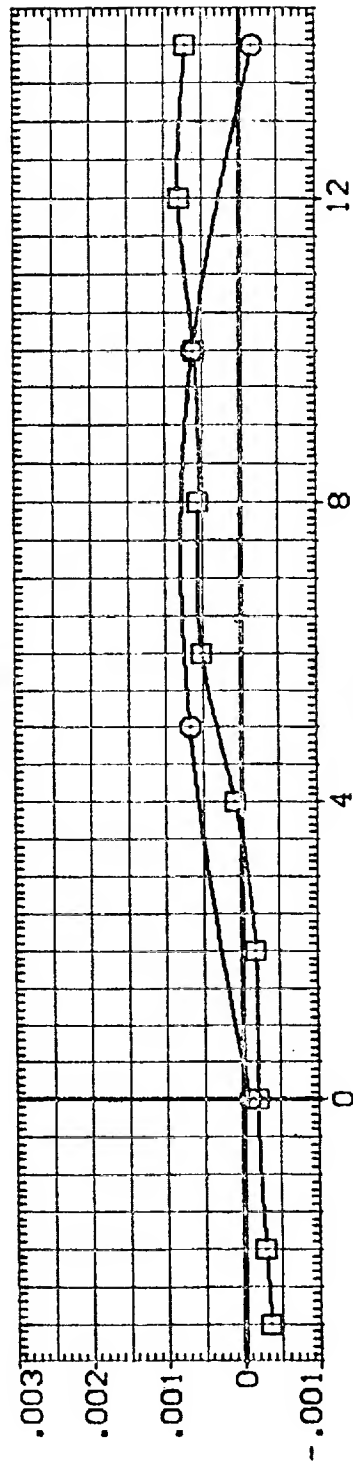
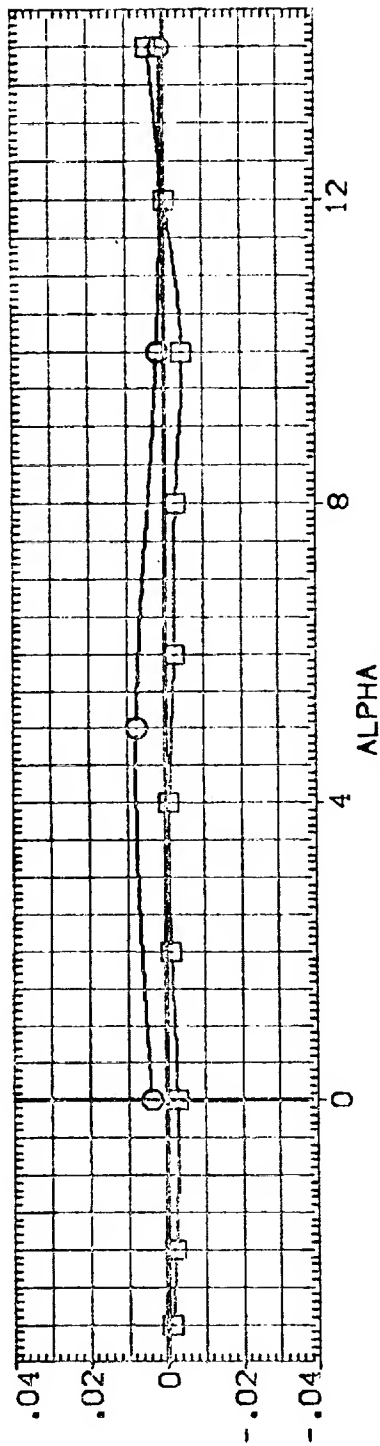
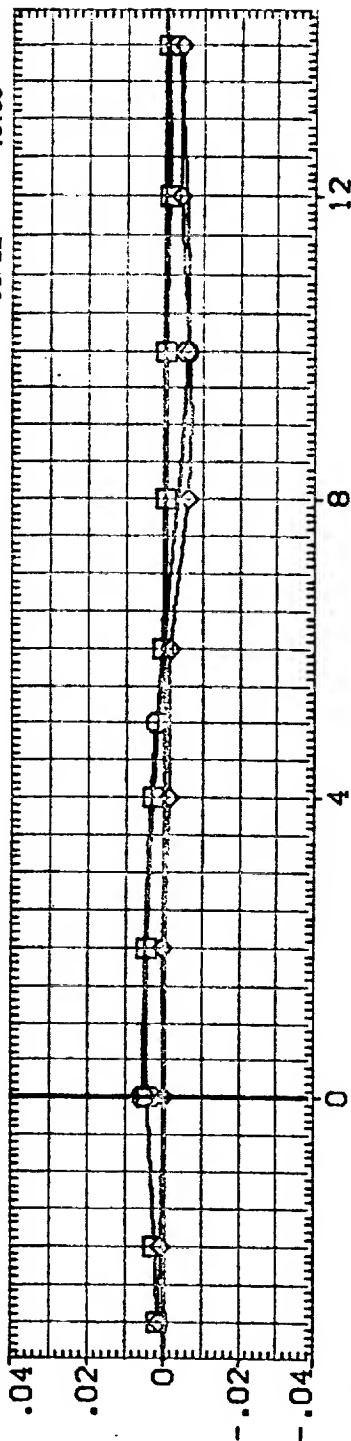


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

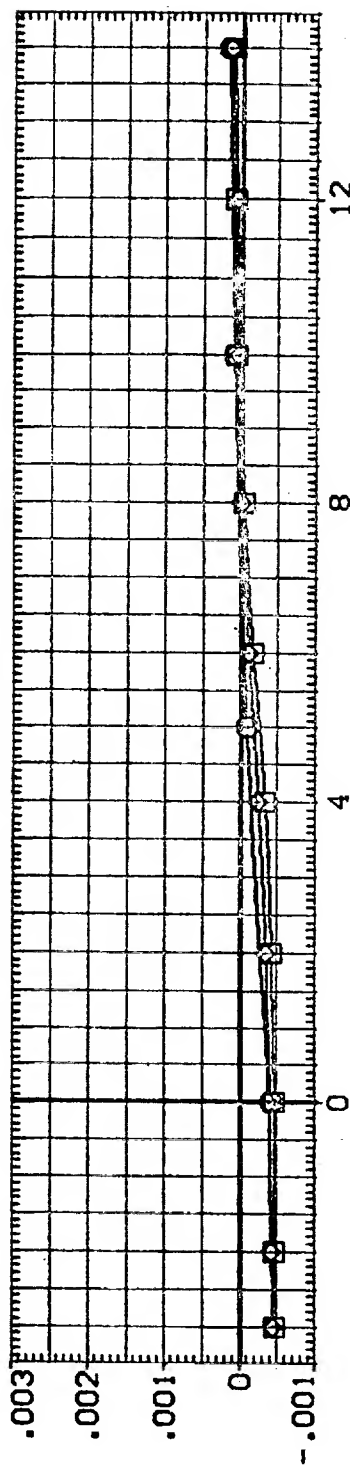
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT
 (UER014) ARC 66-709 0A59 0A11A-(RS V81)+STRUT
 (UER015) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

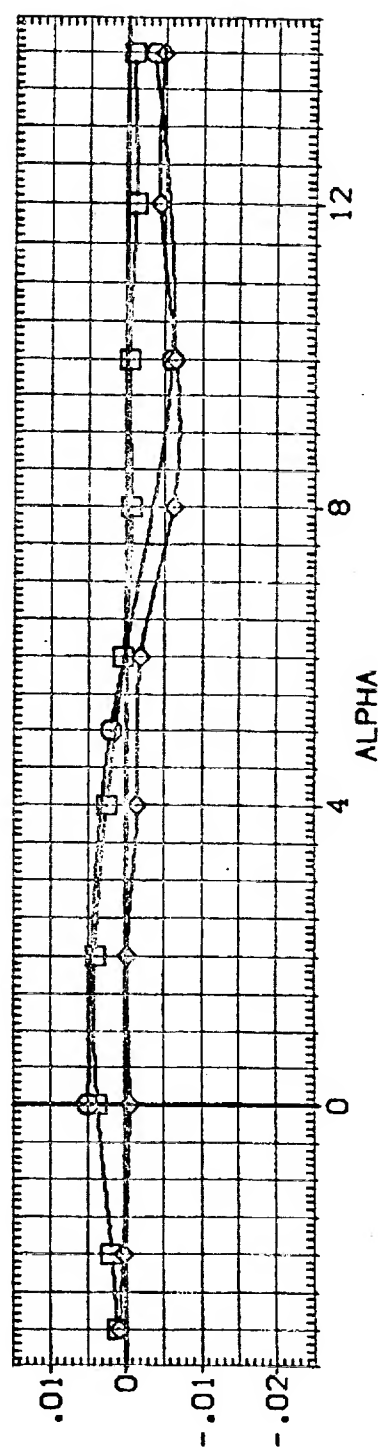
REFERENCE INFORMATION
 SREF 6053 50.FT.
 LREF 5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



DCL



DCLV



DCLT

FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION	
(UER012)	ARC 66-709 OAS9 OALIA-(RS V3)+STRUT	.000	.000	-11.700	SREF	.6053 SQ.FT.
(UER013)	ARC 66-709 OAS9 OALIA-(RS V3)+STRUT	.000	.000	16.300	LREF	.5935 FT.
(UER013)	ARC 66-709 OAS9 OALIA-(RS V3)+STRUT	.000	.000	.000	BREF	1.1710 FT.
					XMRP	12.6255 IN.
					YMRP	.0000 IN.
					ZMRP	-.3750 IN.
					SCALE	.0150

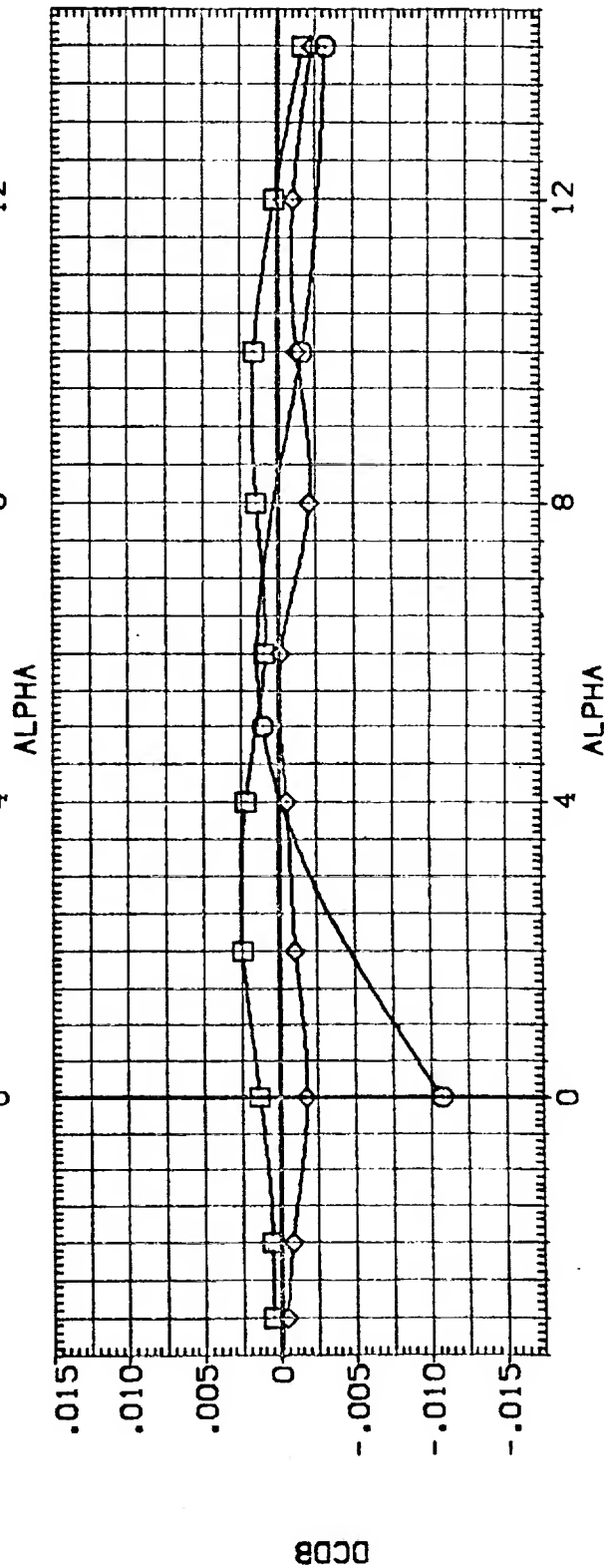
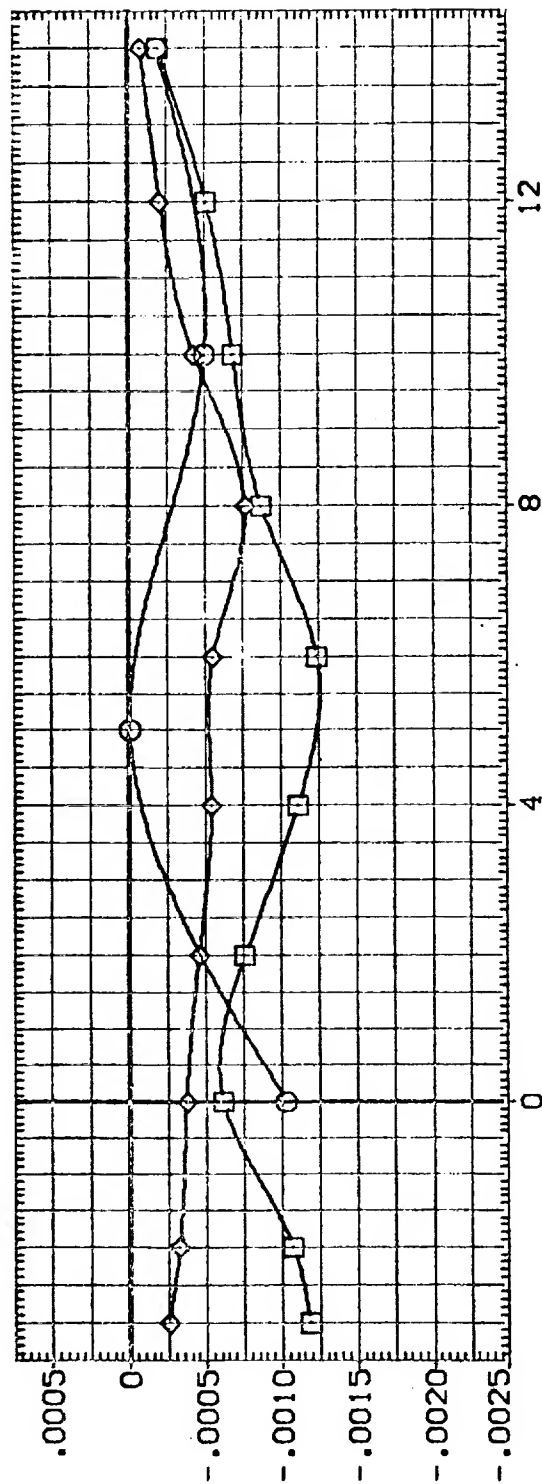


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)
 CONFIGURATION DESCRIPTION: ARC 66-708 OAS9 OAL1A-(RS V8)+STRUT
 DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 50.FT.
 LREF: .5935 FT.
 BREF: 1.1710 IN.
 YMRP: 12.6255 IN.
 ZMRP: .0000 IN.
 SCALE: -.3750 IN.

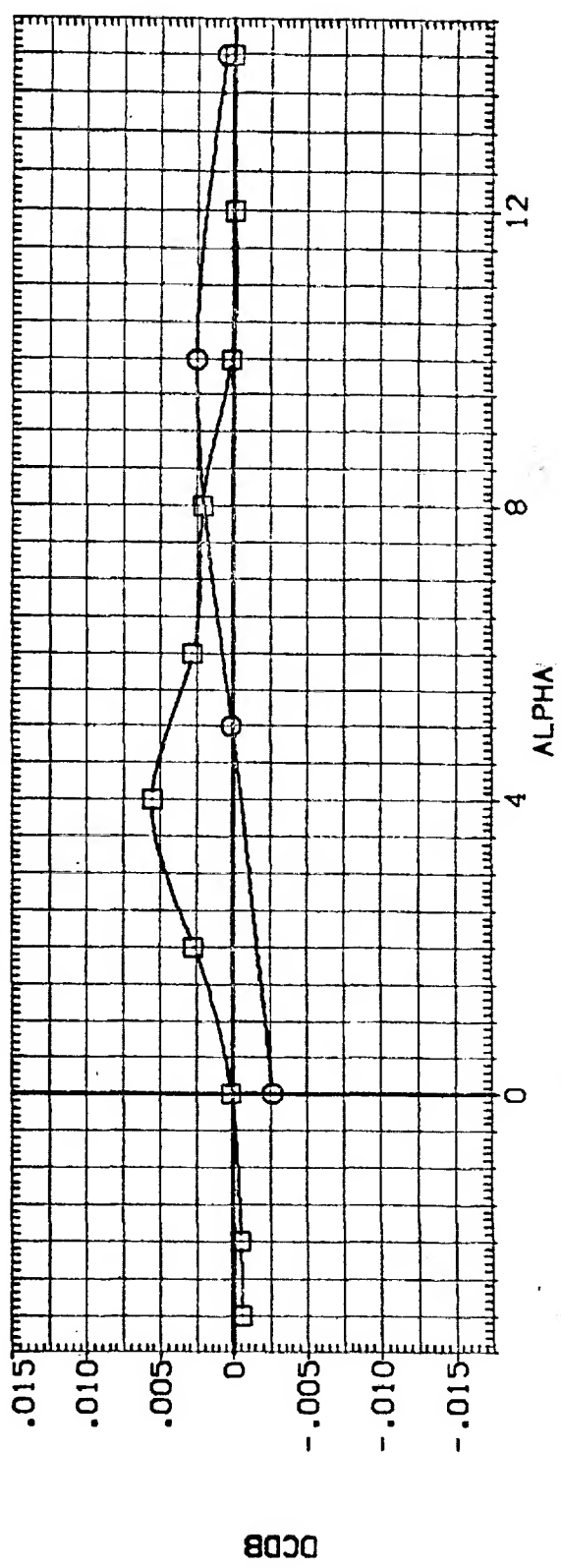
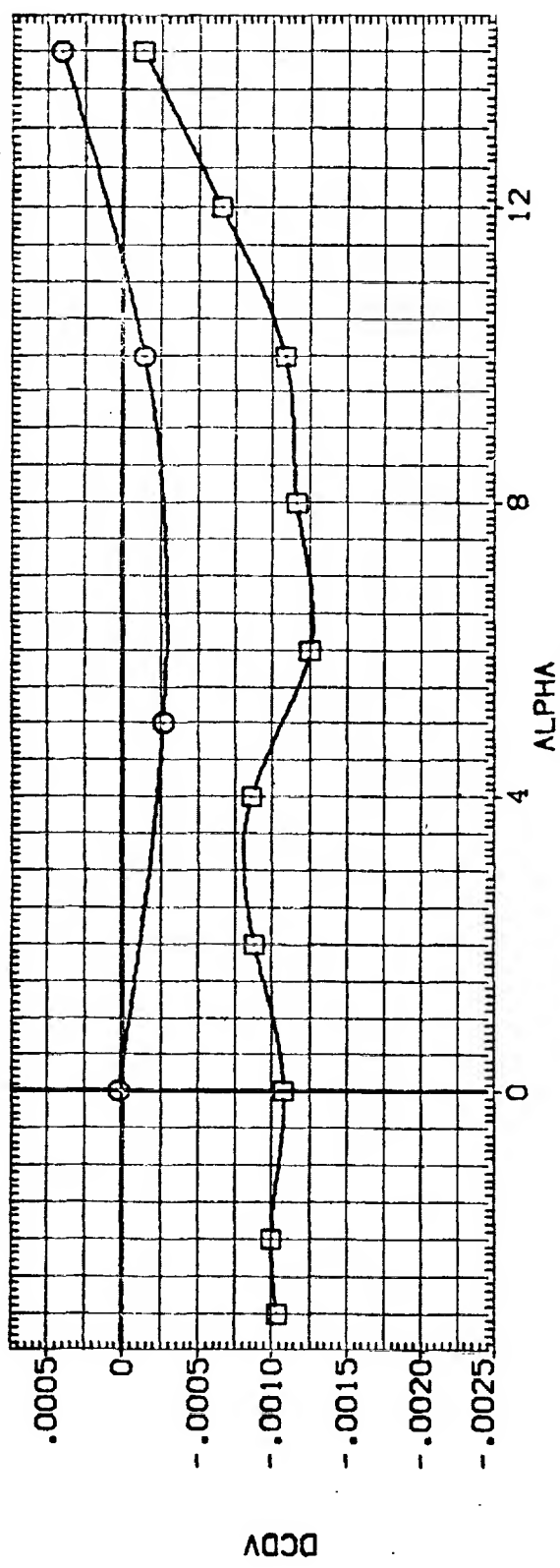



FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: ARC 55-709 QAS9 0A11A-(RS VB)-STRUT
 {UER012} DATA NOT AVAILABLE
 {UER014} DATA NOT AVAILABLE
 {UER015}

BETA: .000
 ELEVON: .000
 BDFLAP: -11.700
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6265 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

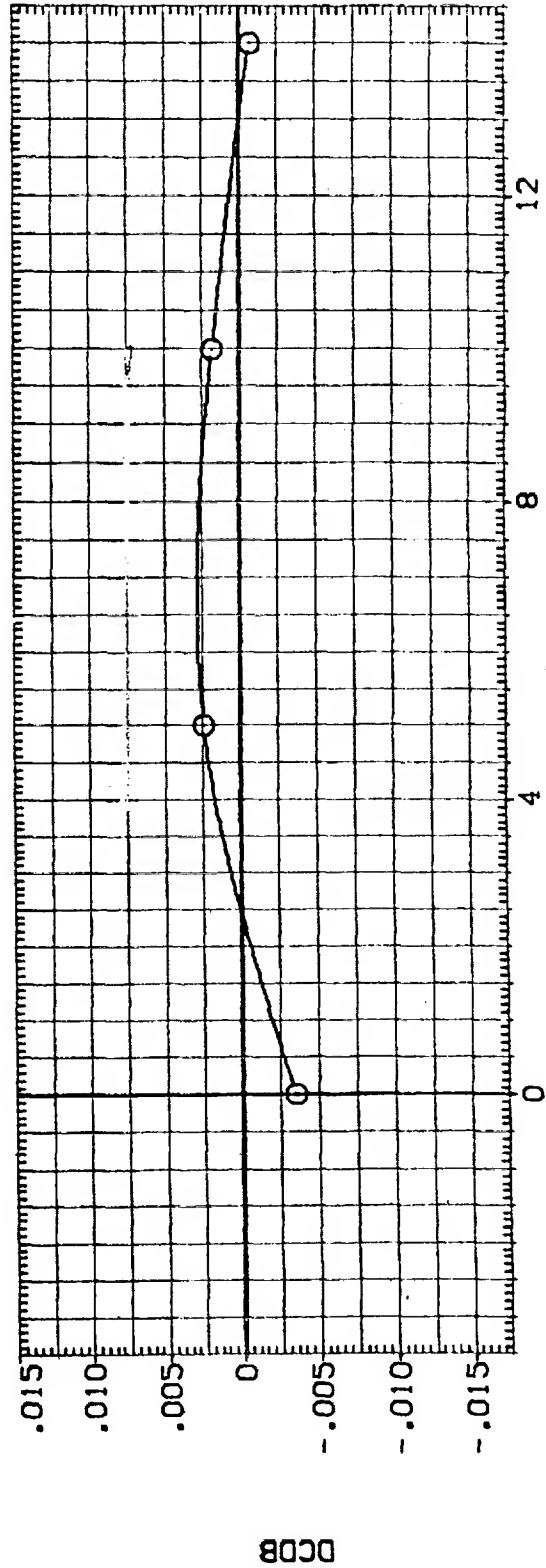
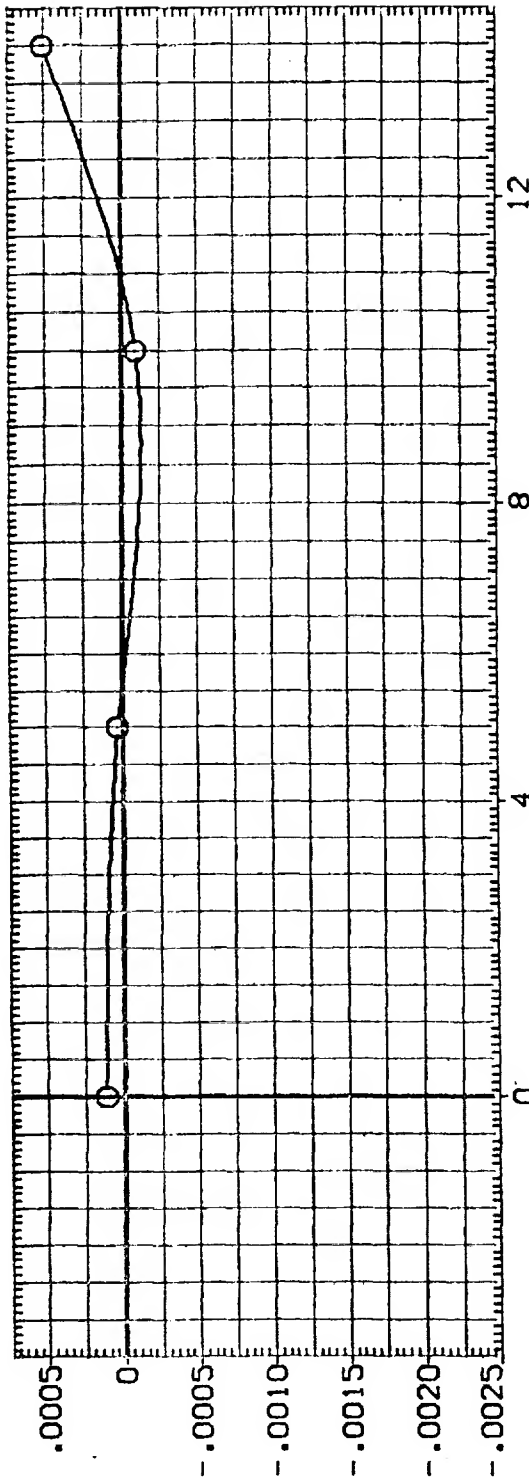


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)
 CONFIGURATION DESCRIPTION: ARC 66-709 OAS9 OAL1A-(RS V8)+STRUT
 DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 50.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

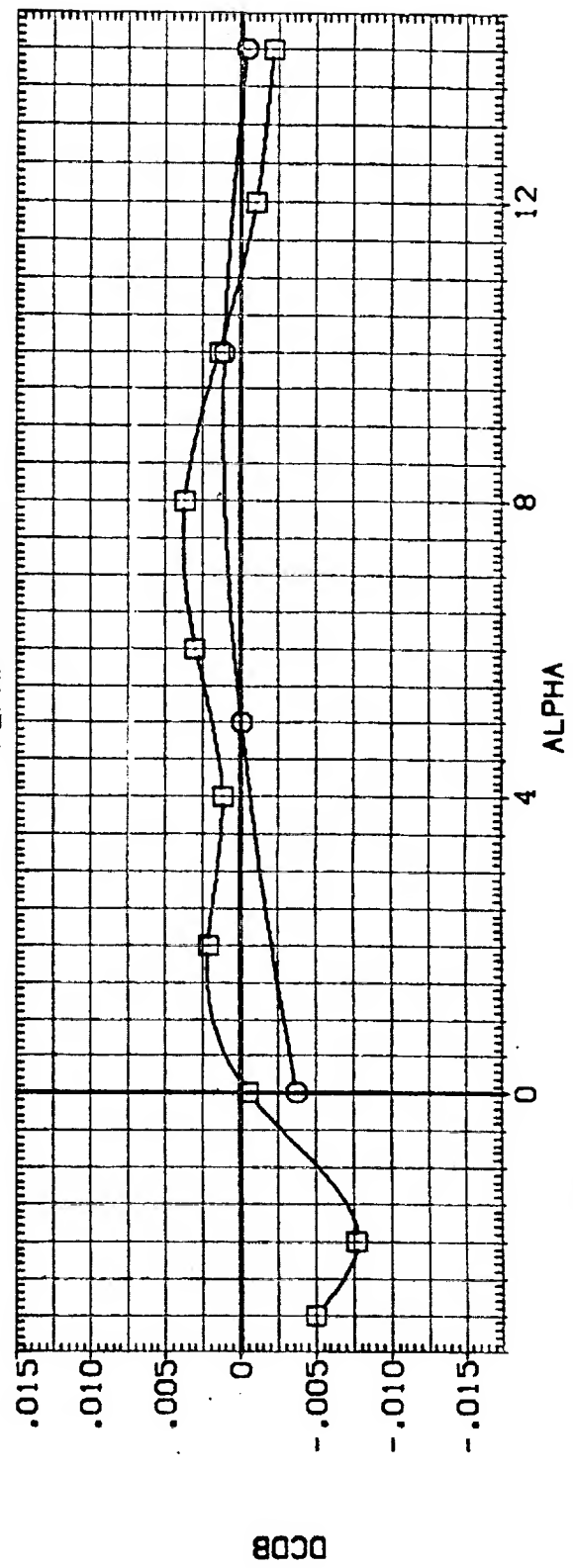
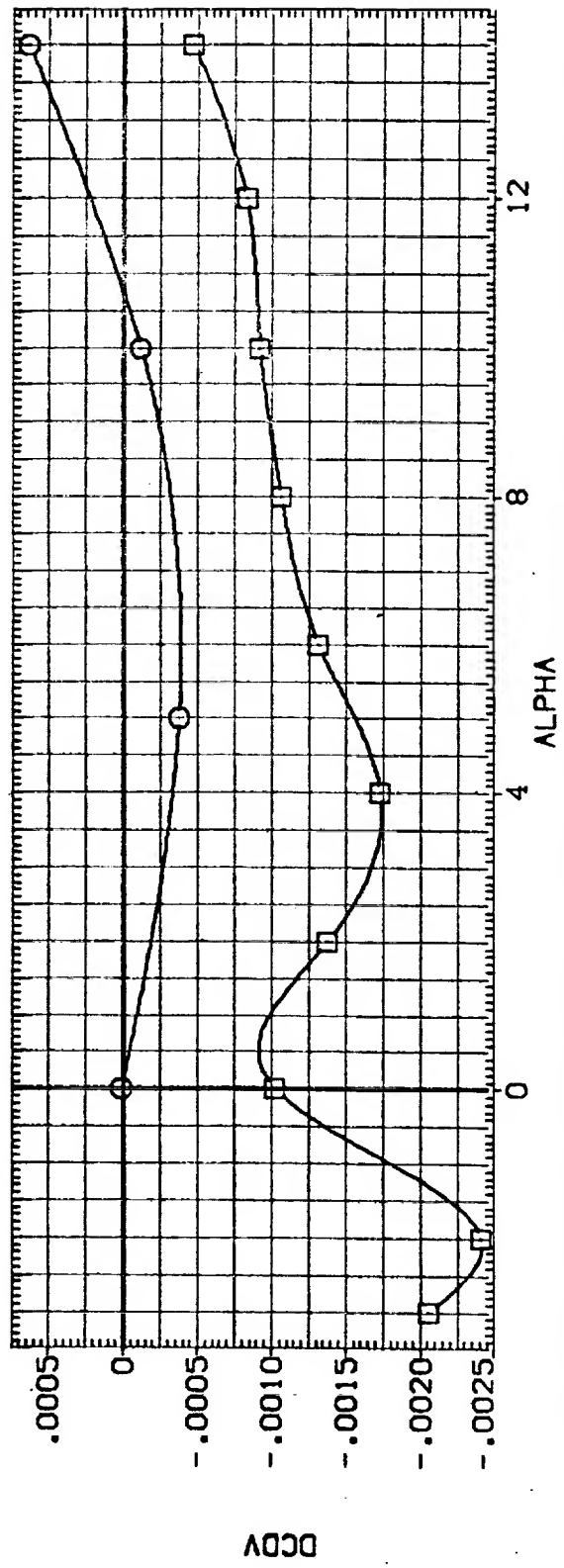


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(D)MACH = .80

DATA SET SYMBOL (UERO12) (UERO14) (UERO15)

CONFIGURATION DESCRIPTION

ARC 66-709 D459 D411A-(R5 V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA ELEVON BOFLAP
.000 .000 -11.700
.000 .000 16.300
.000 .000 .000

REFERENCE INFORMATION
SREF .6053 50.FT.
LREF .5375 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

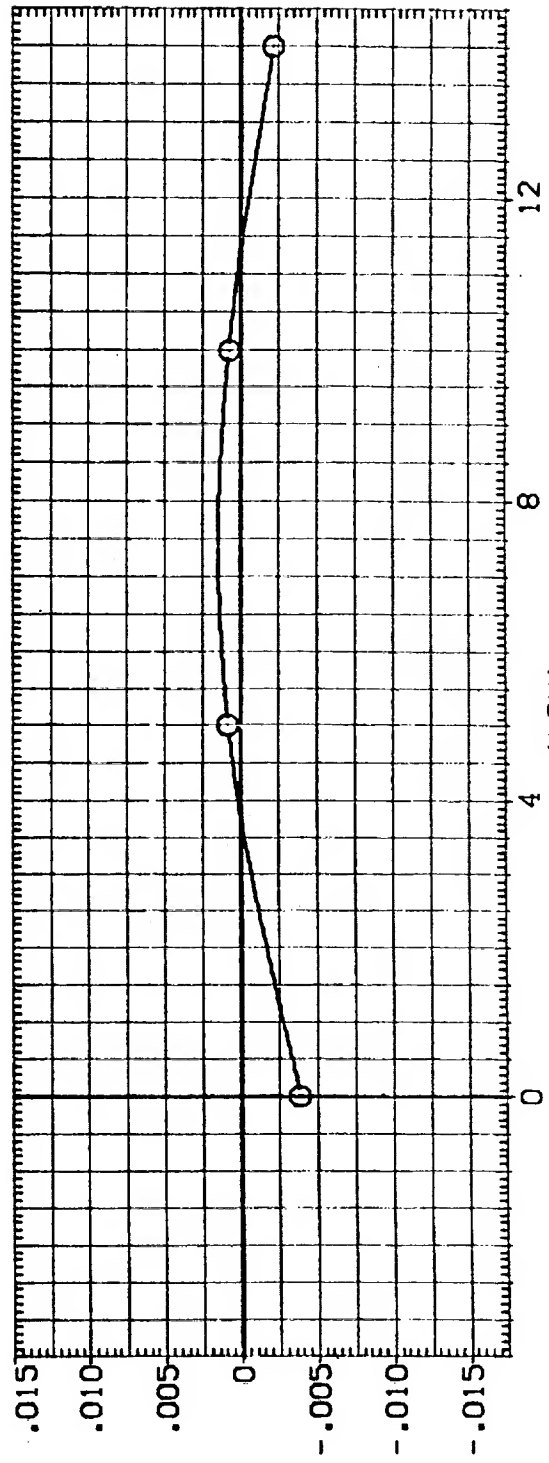
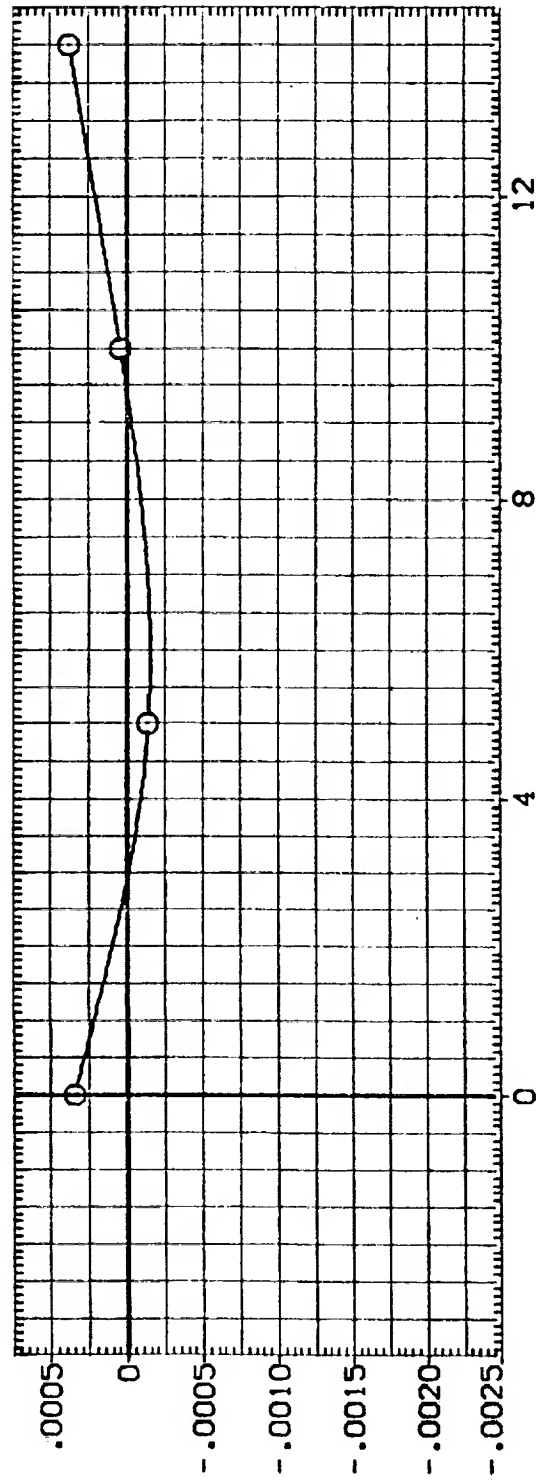


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

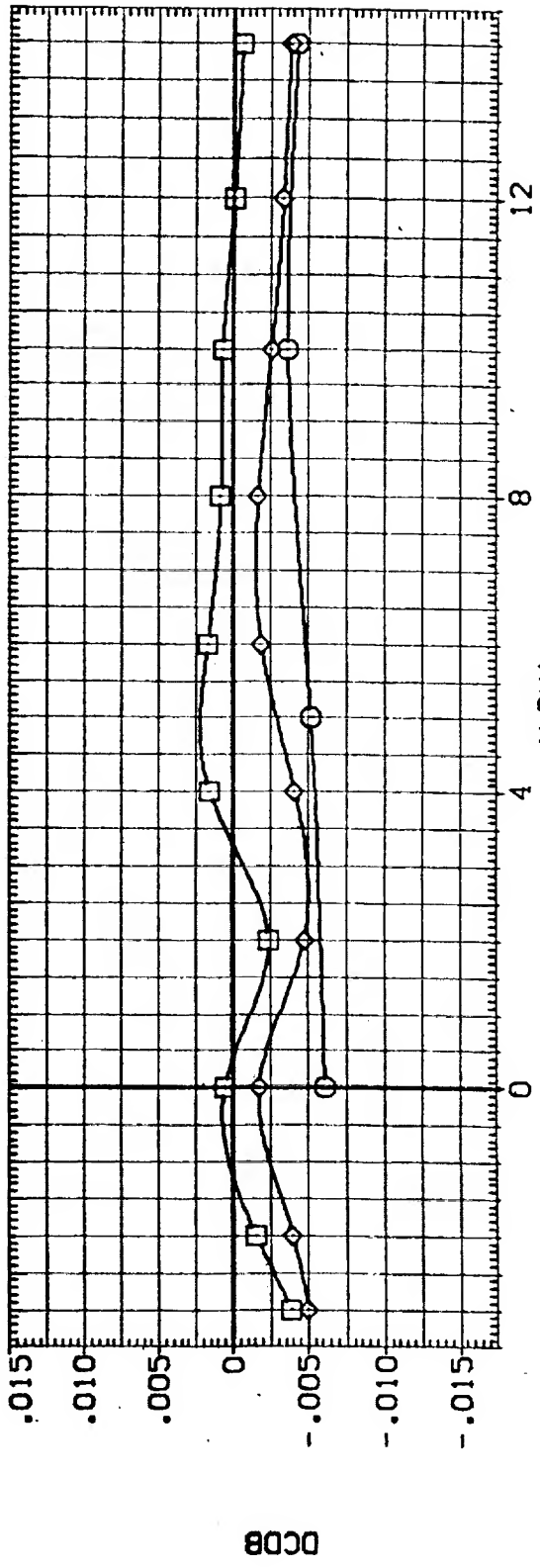
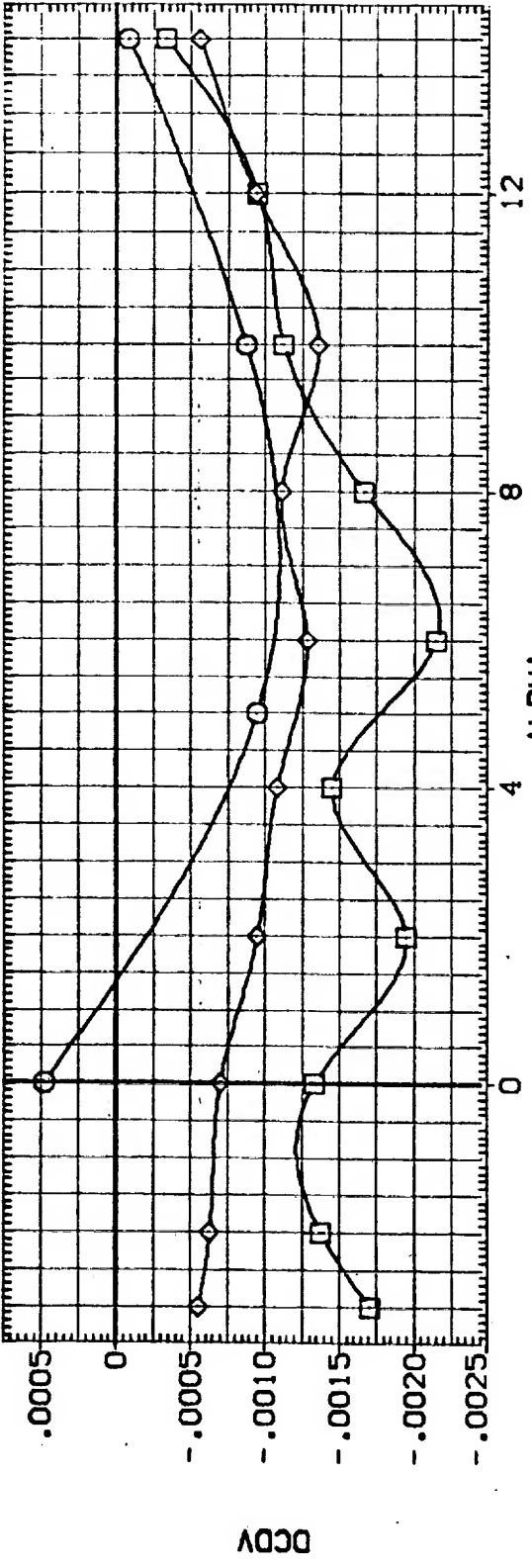


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UERO12) ARC 65-70S DASS DALLA- (RS VB)+STRUT
 (UERO14) DATA NOT AVAILABLE
 (UERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -3.50 IN.
 SCALE .0150

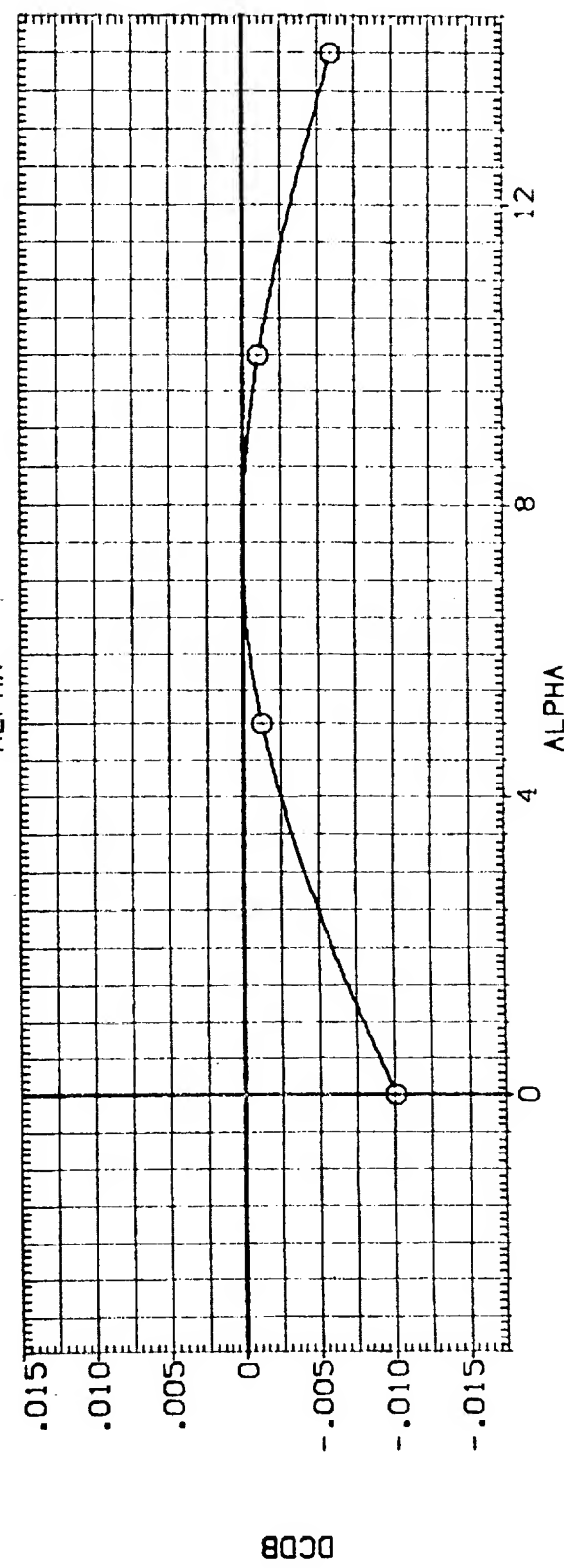
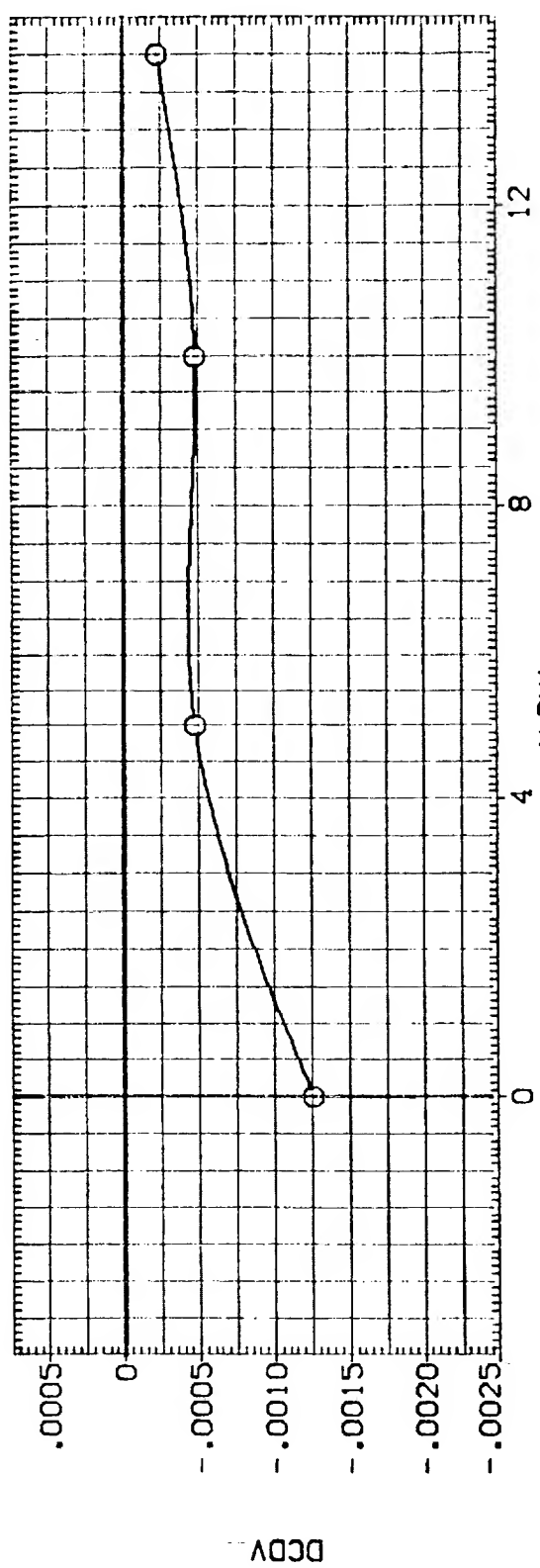


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(GMACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(UERO12) □ ARC 66-709 DA59 DA11A-(RS V8)+STRUT

(UERO14) ◇ ARC 66-709 DA59 DA11A-(RS V8)+STRUT

(UERO15) ◇ ARC 66-709 DA59 DA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 16.300

.000 .000 .000

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

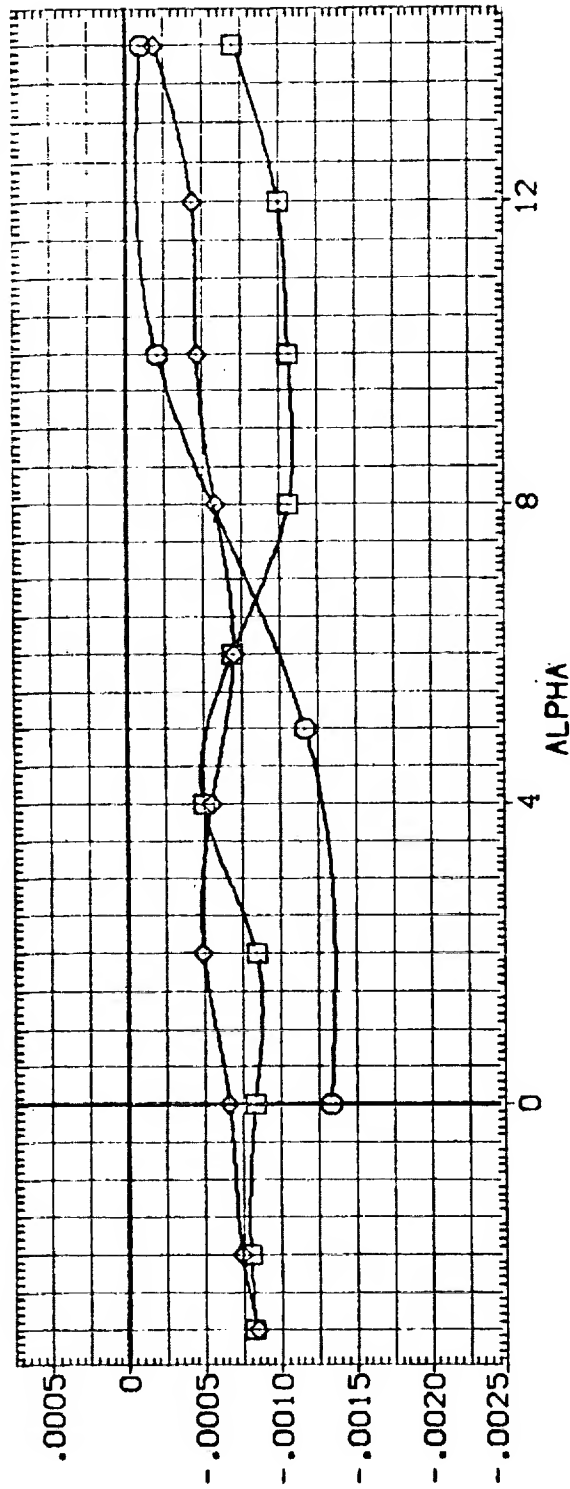
BREF 1.1710 IN.

XMRP 12.6255 IN.

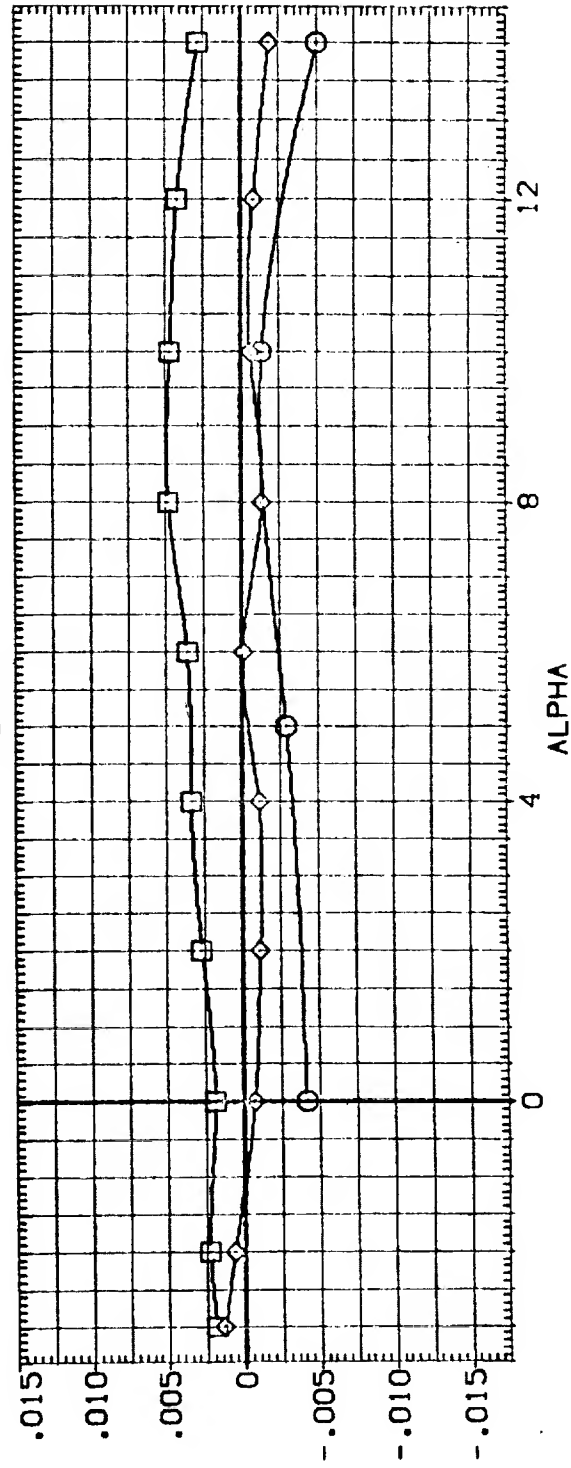
YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150



DCDB



DCDB

FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(H)MACH = 1.20

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)

CONFIGURATION DESCRIPTION: ARC 66-709 0A59 0A11A-(RS V8)+STRUT
ARC 66-709 0A59 0A11A-(RS V8)+STRUT
DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 16.300 .000

REFERENCE INFORMATION: SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1010 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.0050 IN.
SCALE .0050

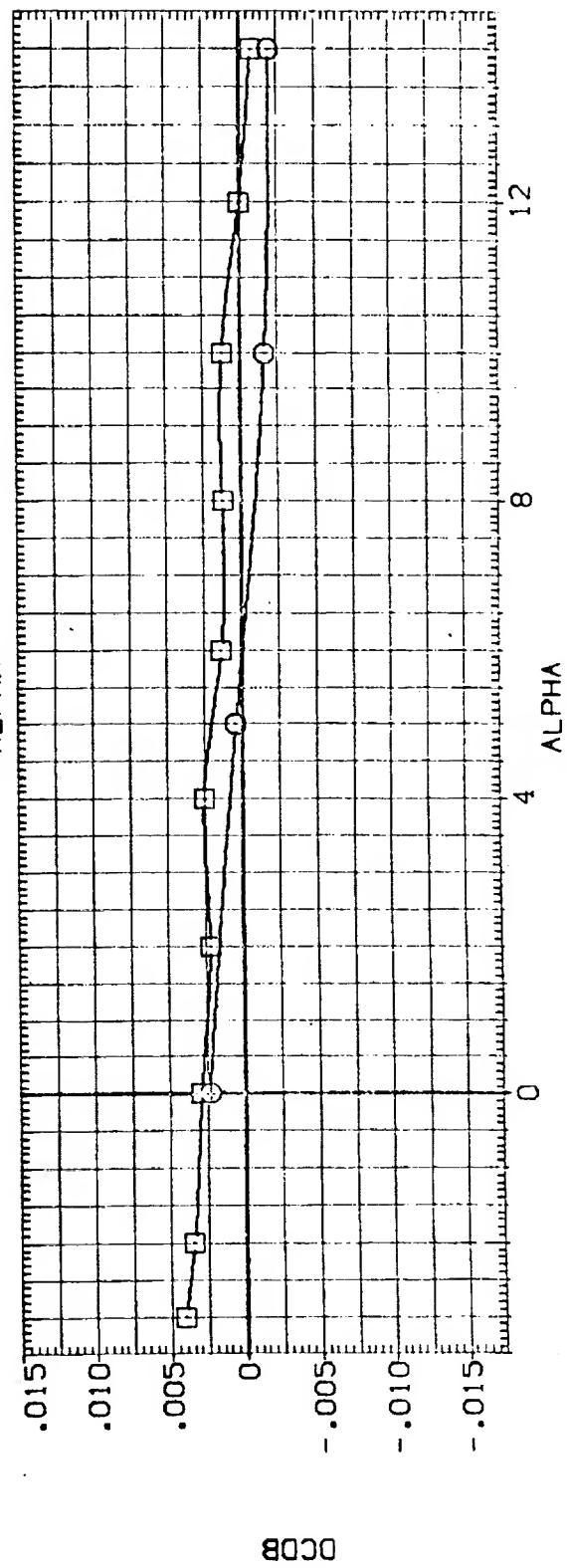
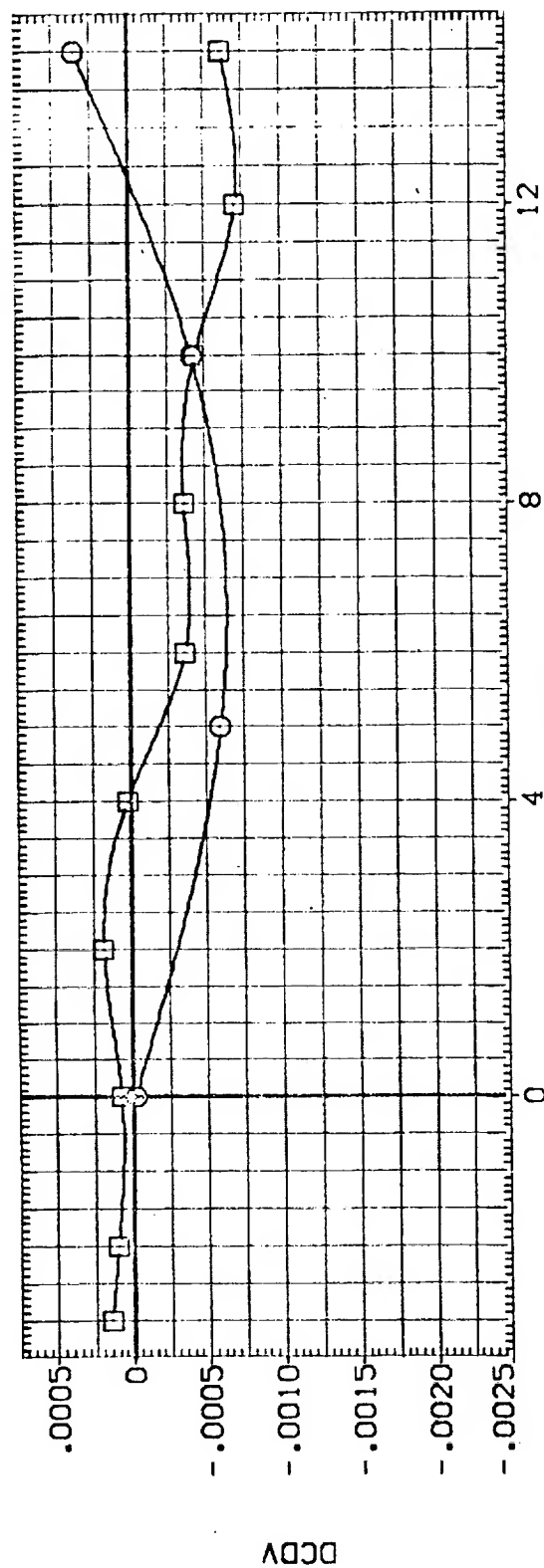


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 SQ.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

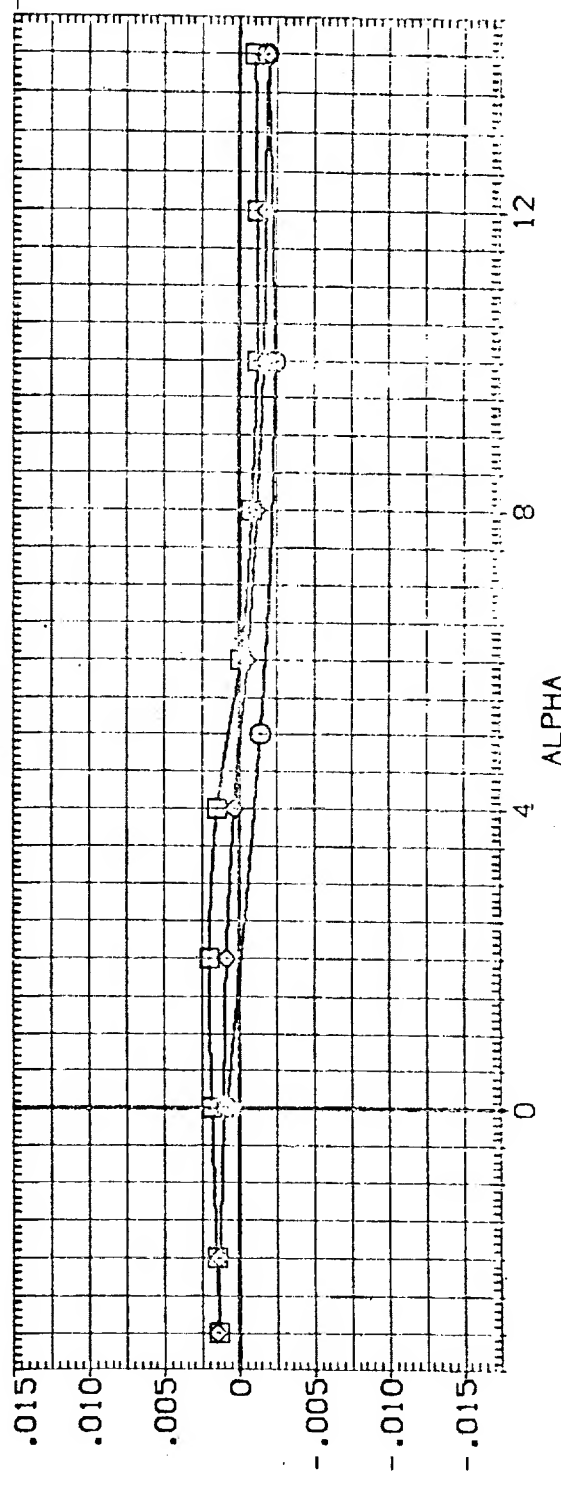
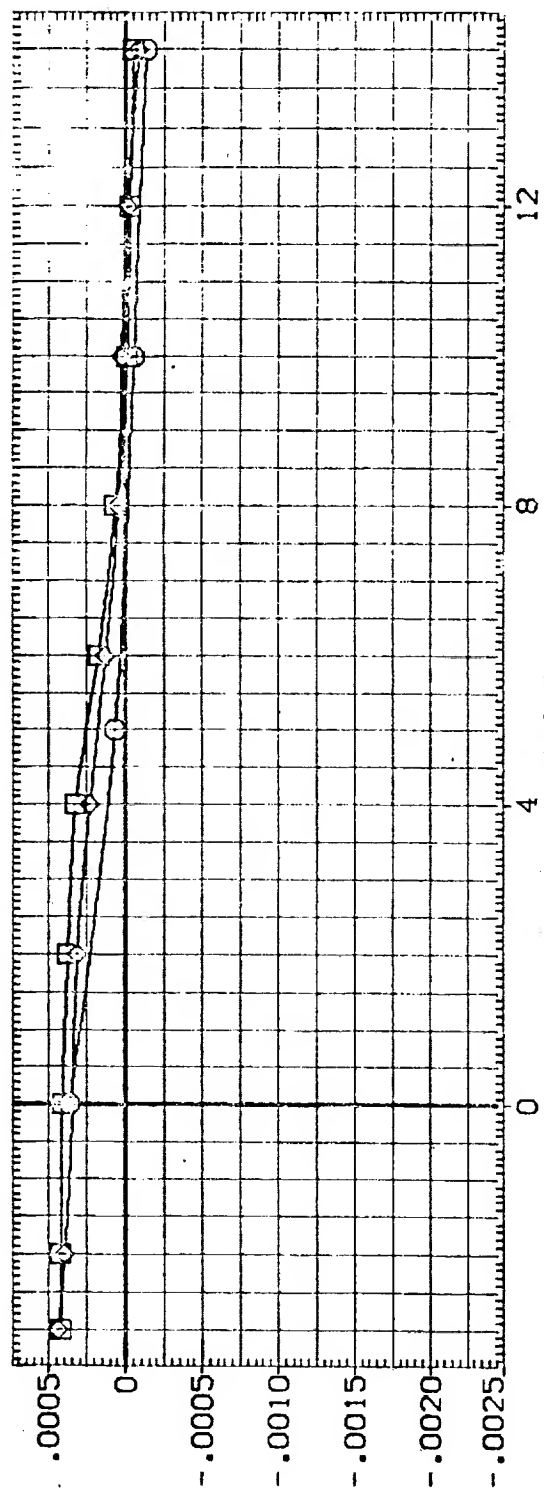


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

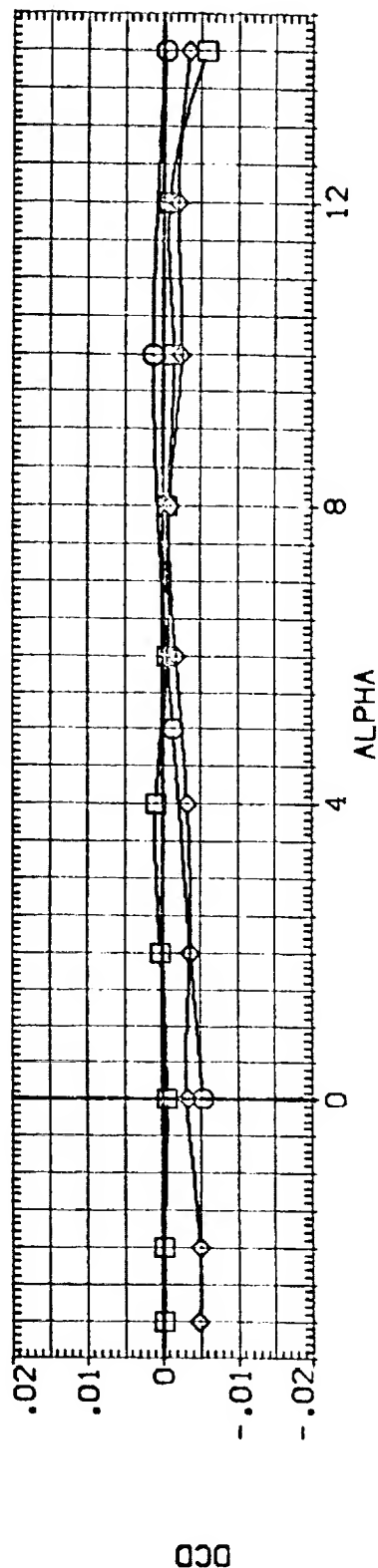
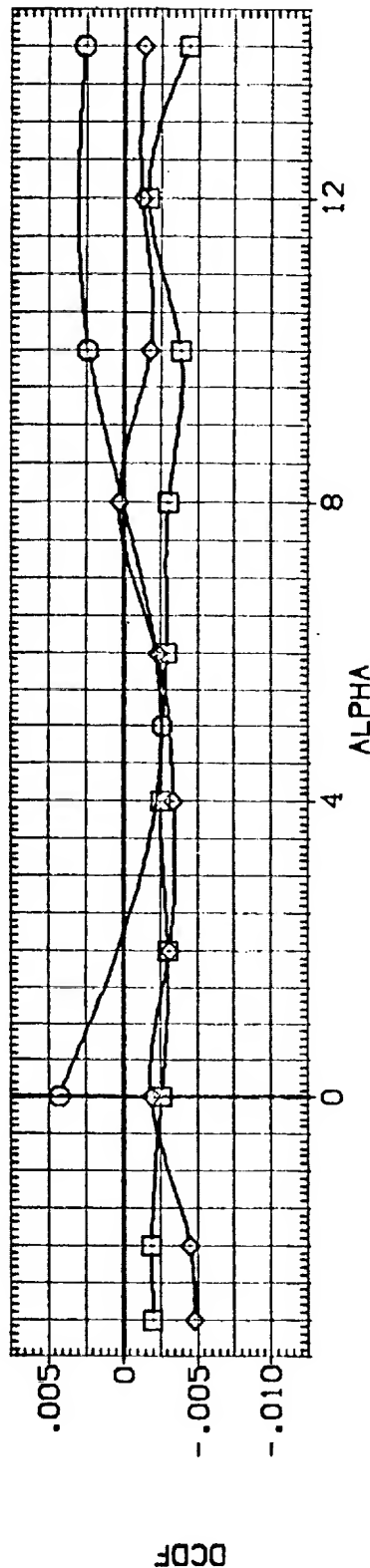
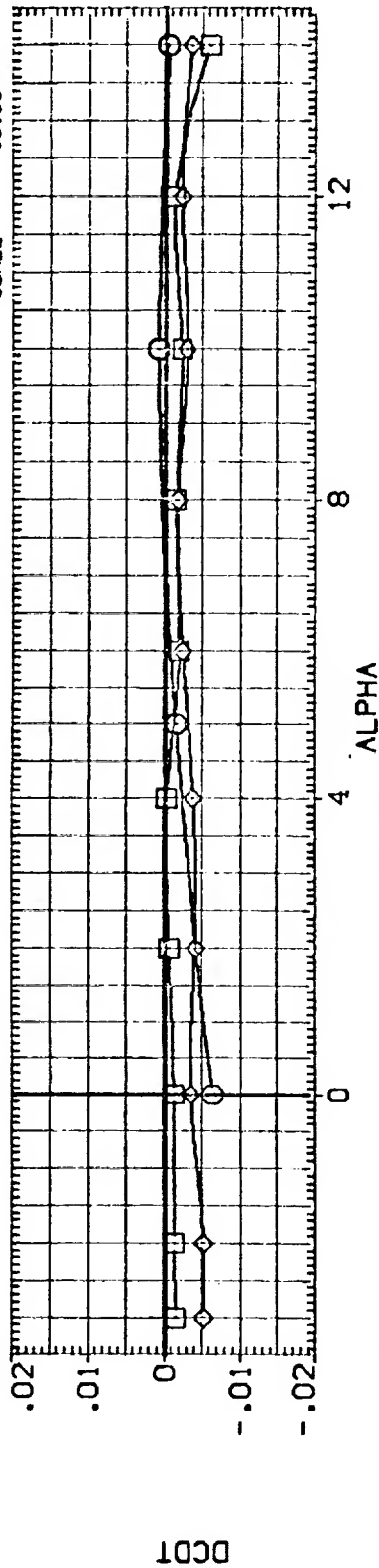


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER012) ARC 66-709 D459 D411A-(RS V8)+STRUT
 (UER014) ARC 66-709 D459 D411A-(RS V8)+STRUT
 (UER015) DATA NOT AVAILABLE

BETA ELEVON BDFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

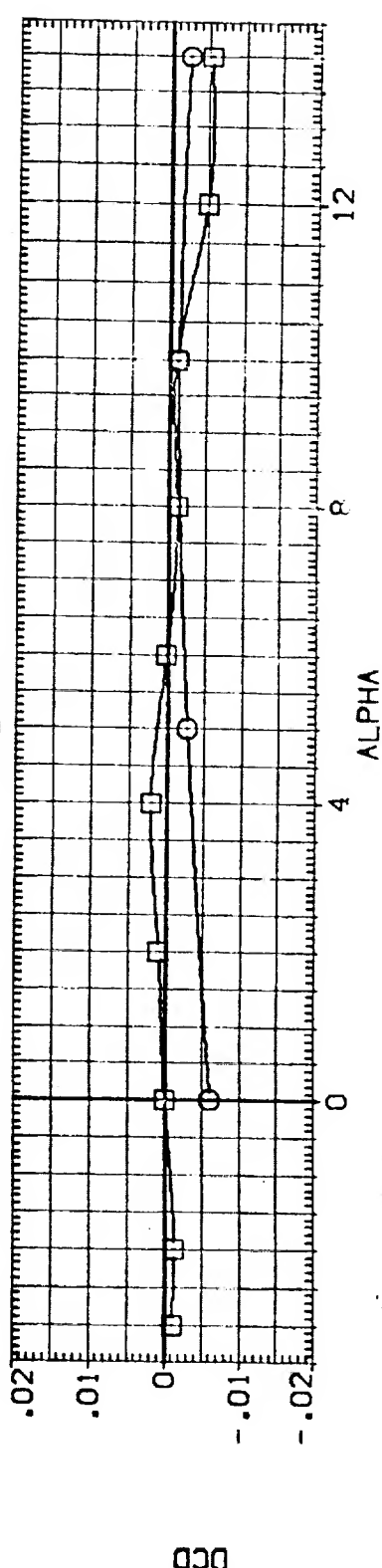
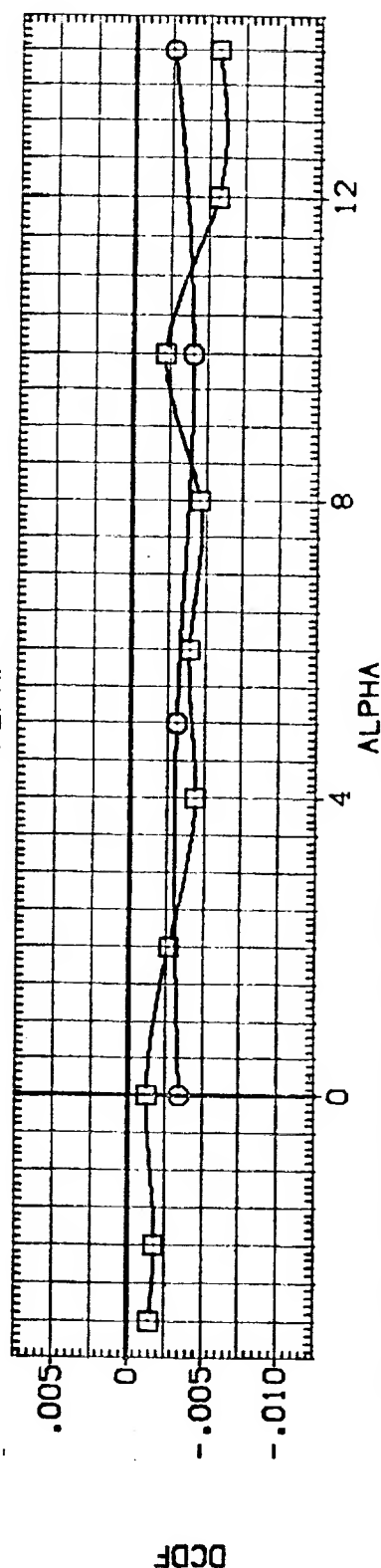
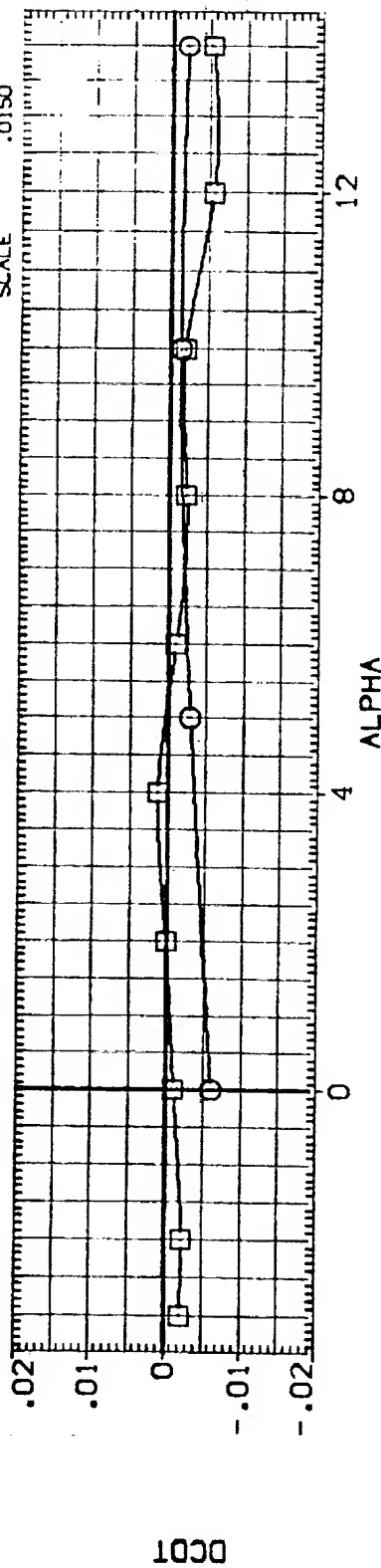


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL: (UERO12) (UERO14) (UERO15)

CONFIGURATION DESCRIPTION: ARC 66-709 OAS9 OA11A-(RS V8)+STRUT

REFERENCE INFORMATION:

	SO.FT.	FT.	IN.
SREF	-6053		
LREF	.5935		
BREF	1.1710		
XMRP	12.6255		
YMRP	.0000		
ZMRP	-.3750		
SCALE	.0150		

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 16.300 .000

DATA NOT AVAILABLE

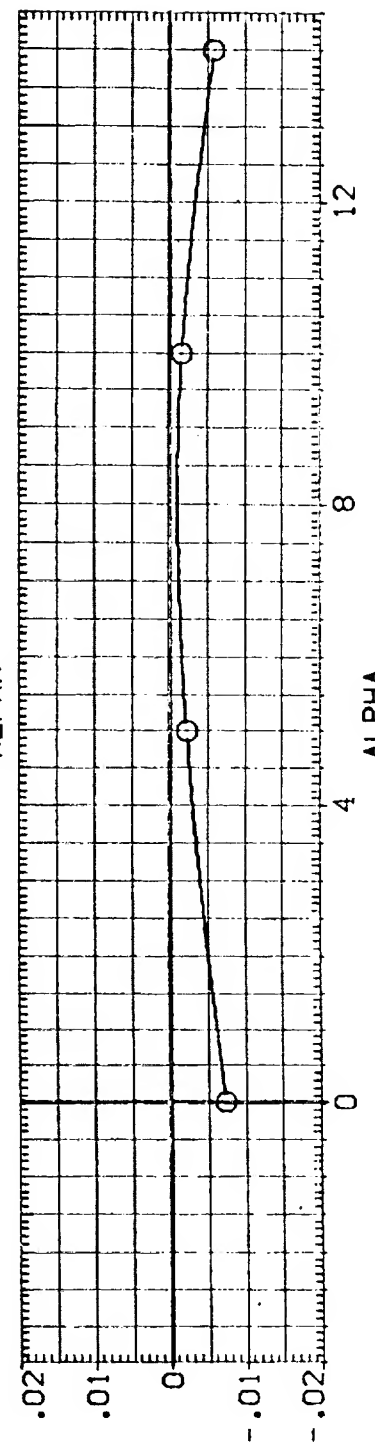
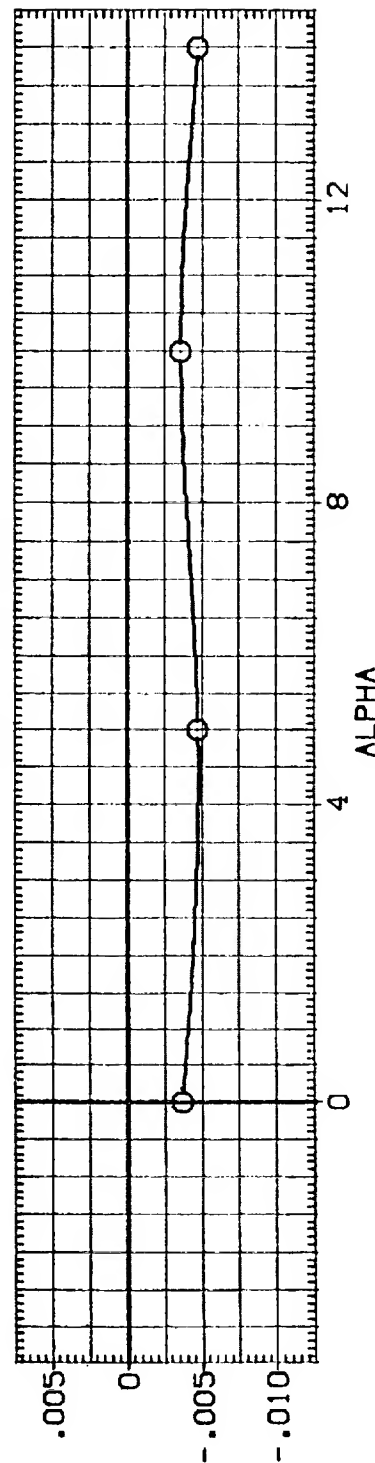
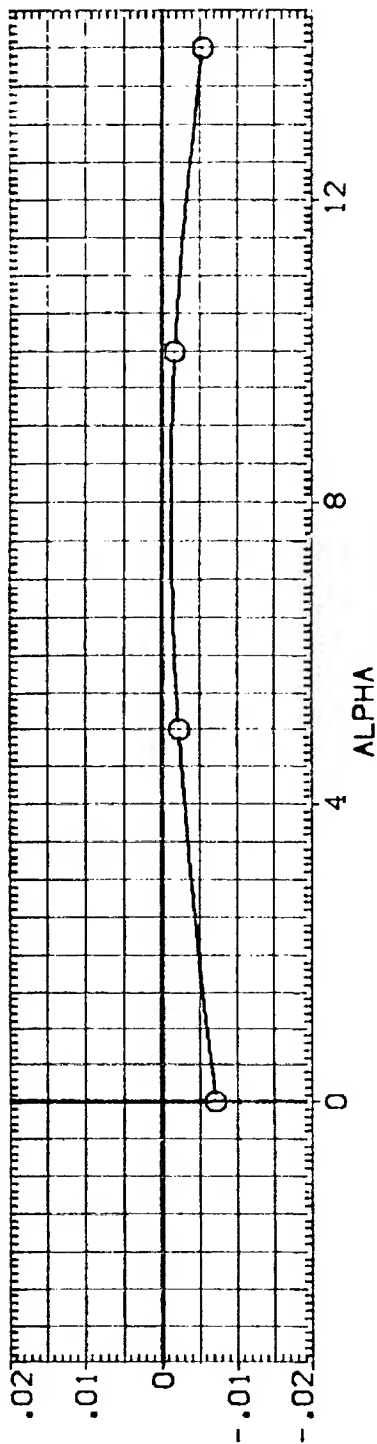
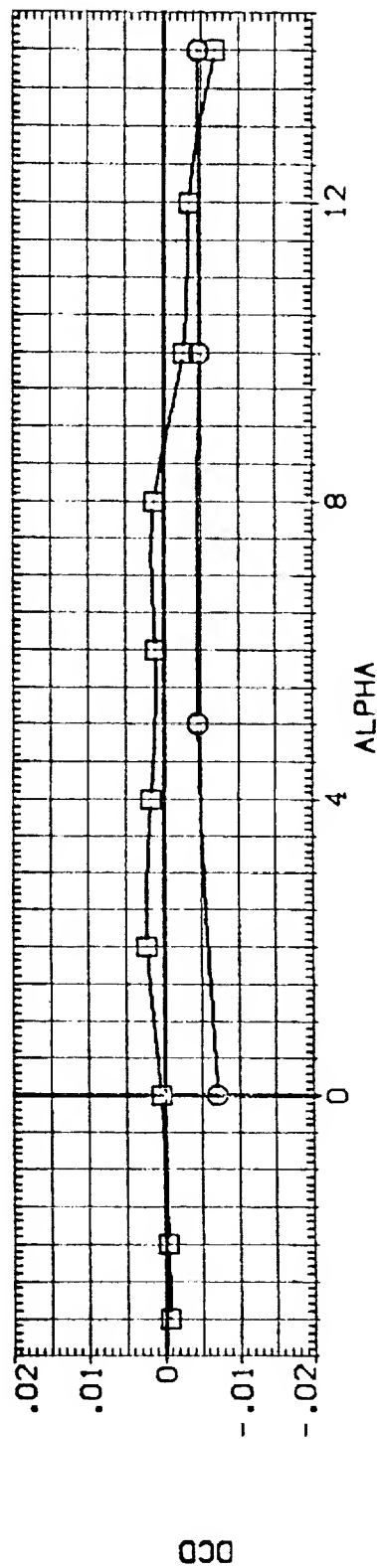


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1910 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 D459 D411A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UERO14)	DATA NOT AVAILABLE	.000	.000	16.300	LREF .5935 FT.
(UERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

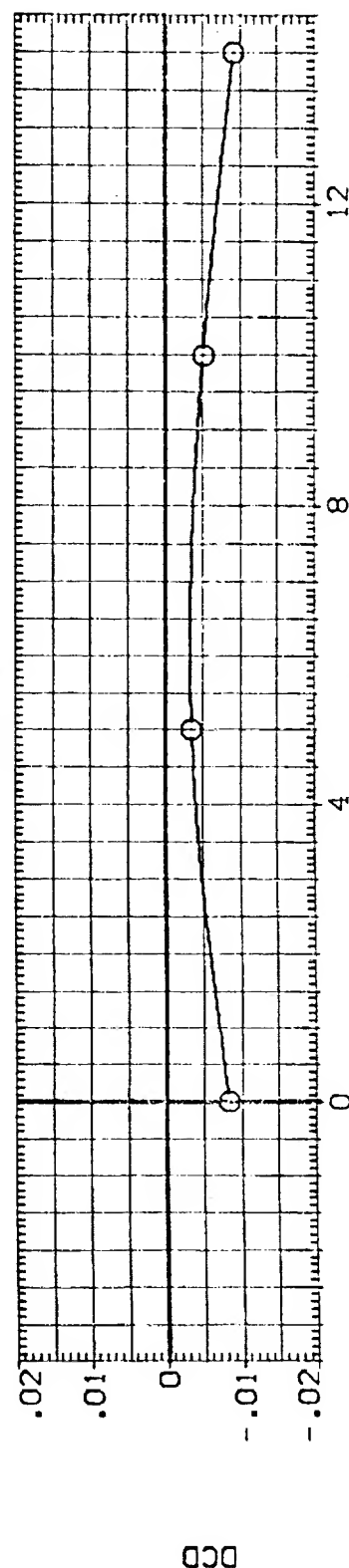
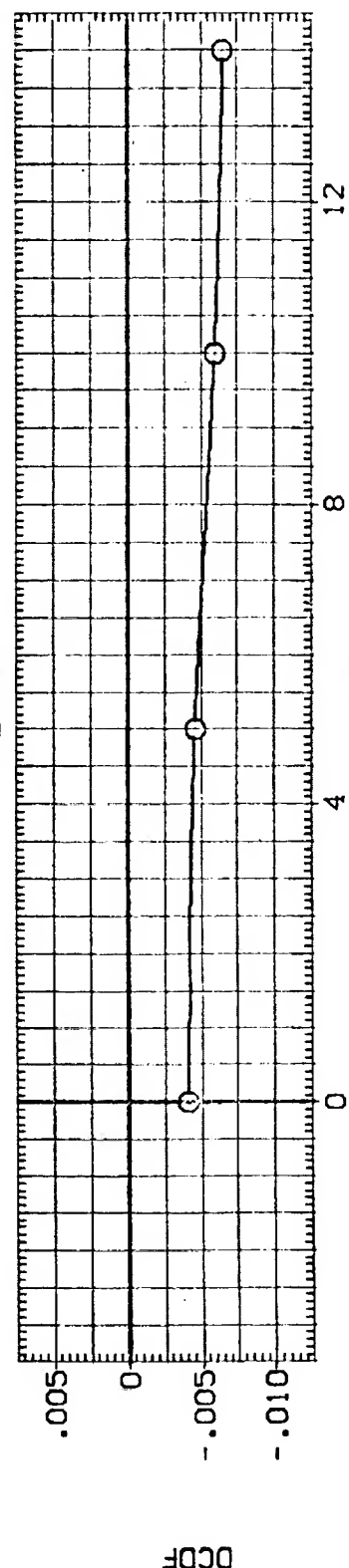
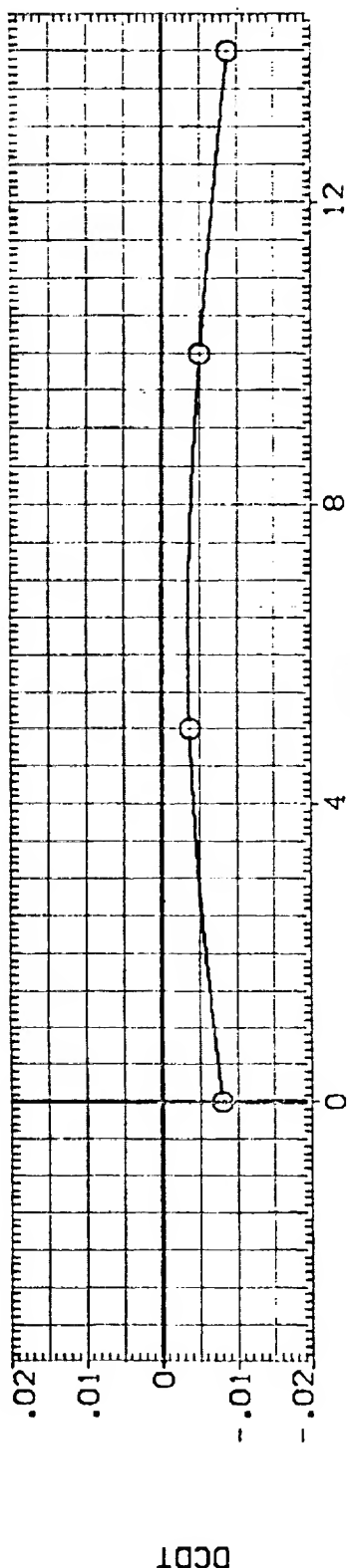


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .85

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{UERO12}	ARC 66-709	DASS DAI1A-(RS V81)+STRUT	.000	.000	-11.700	SREF -6053 SQ.FT.
{UERO14}	ARC 66-709	DASS DAI1A-(RS V81)+STRUT	.000	.000	16.300	LREF -8935 SQ.FT.
{UERO15}	ARC 66-709	DASS DAI1A-(RS V81)+STRUT	.000	.000	.000	BREF 1.710 FT.
						XREF 12.6235 IN.
						YREF .0000 IN.
						ZREF -37.50 IN.
						SCALE .0150

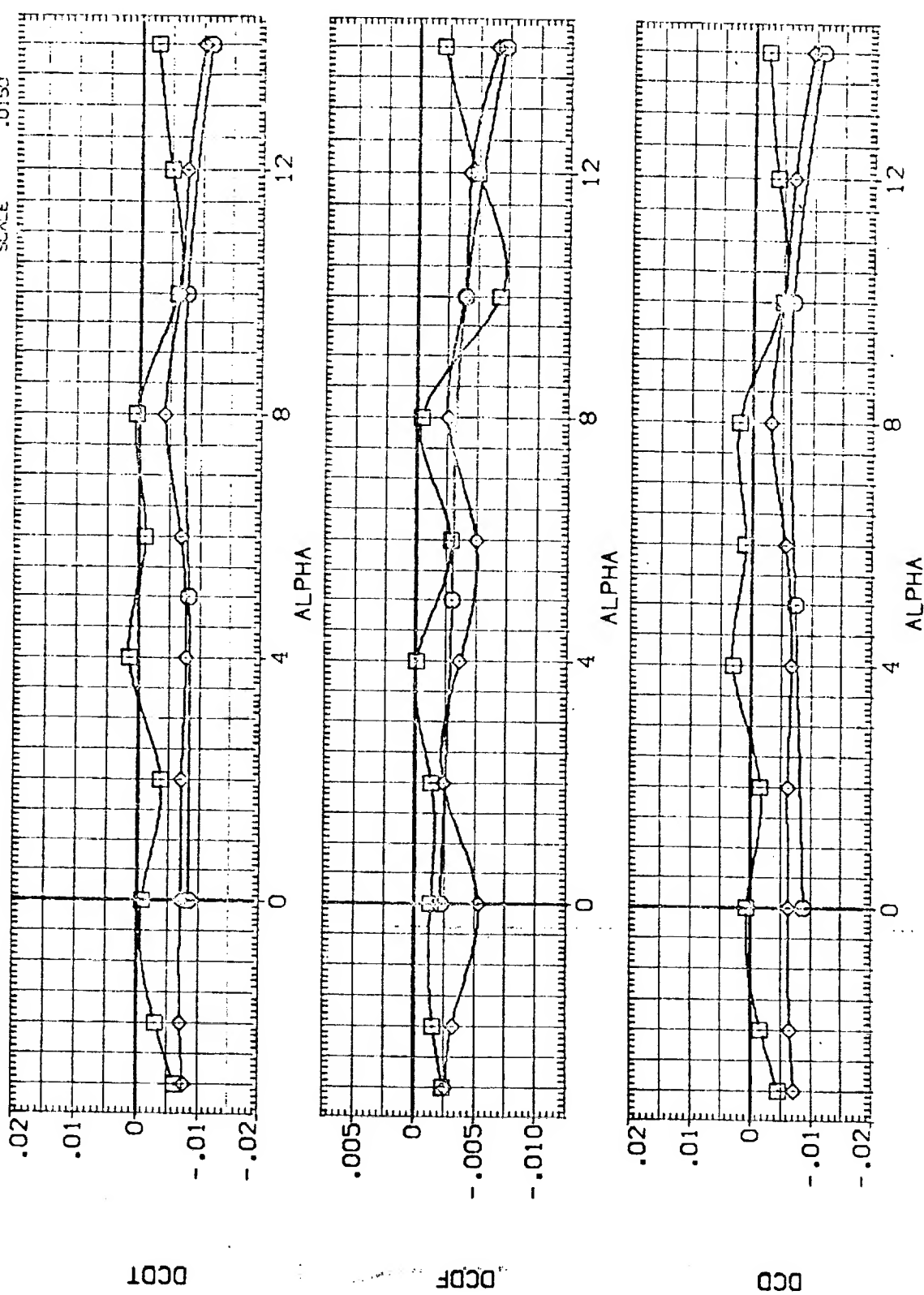


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL: {UERO12}
 {UERO14}
 {UERO15}

CONFIGURATION DESCRIPTION: ARC 66-709 OASG DATA-(RS V8)+STRUT
 DATA NOT AVAILABLE
 DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

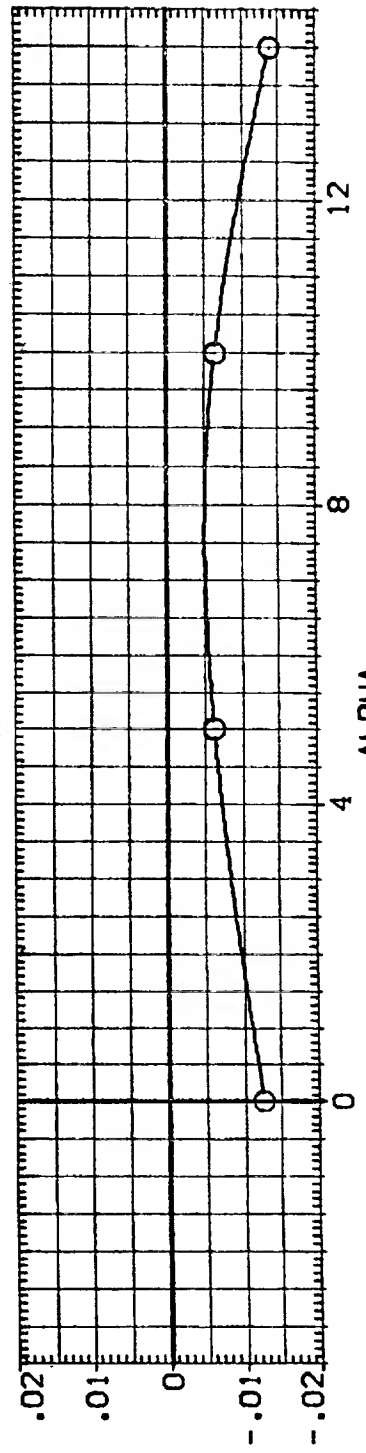
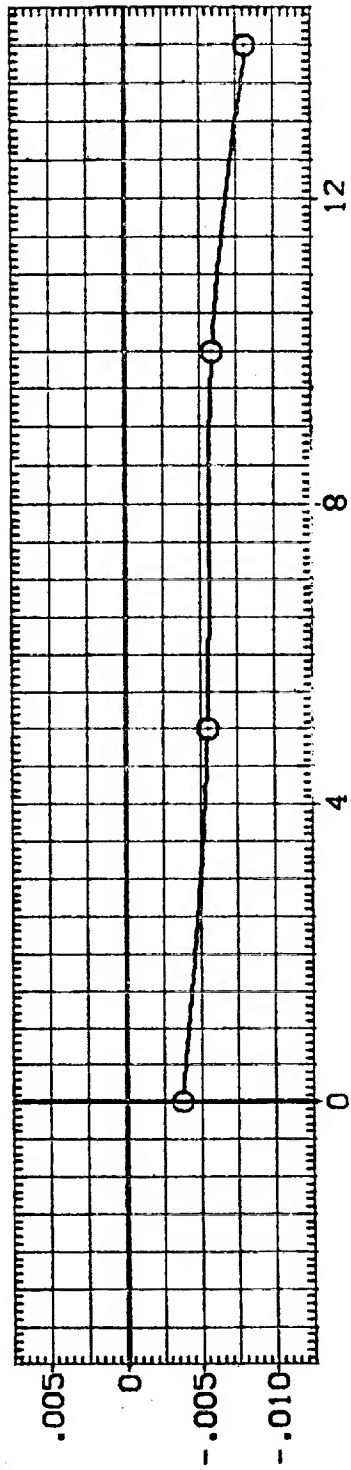
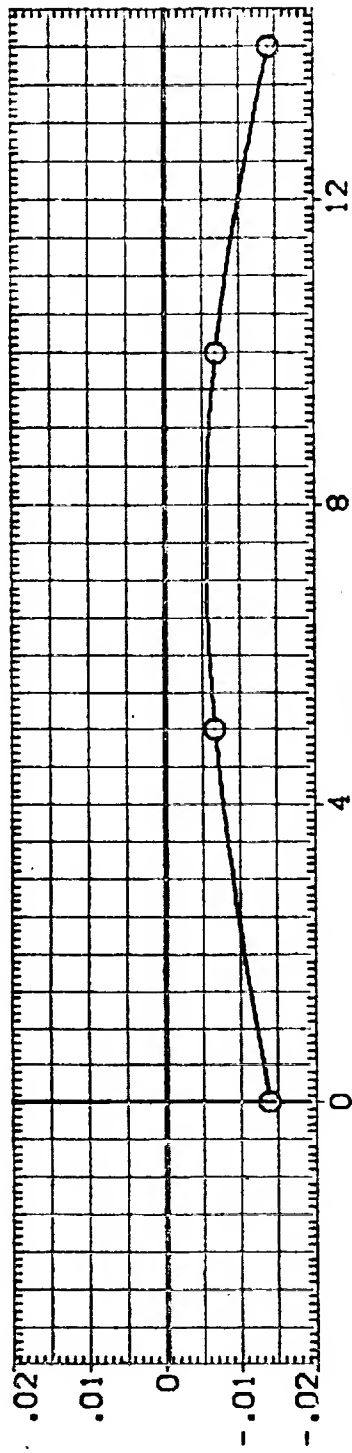


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{UER012}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{UER014}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	16.300	LREF .5933 FT.
{UER015}	ARC 66-709 0A59 0A11A-(R5 V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

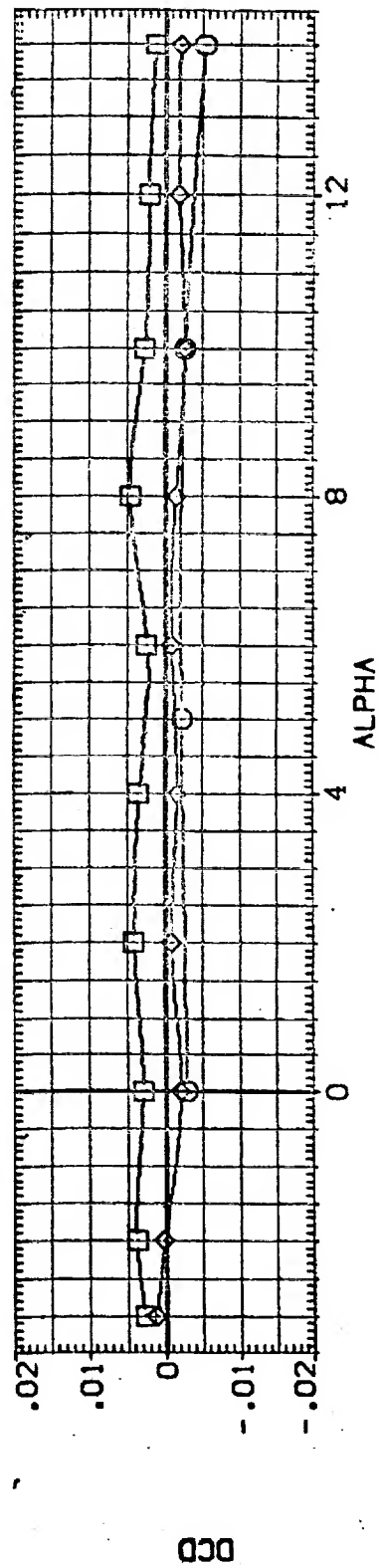
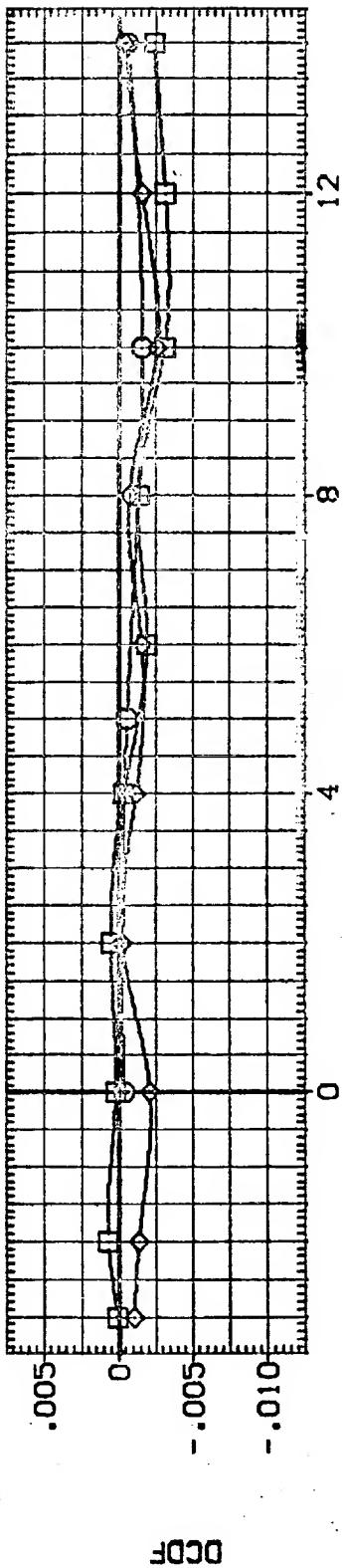
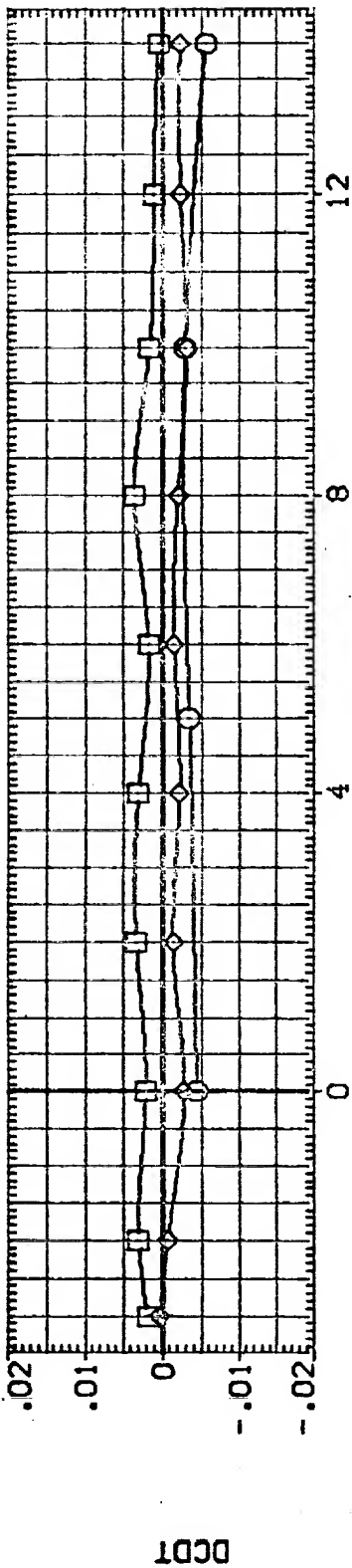


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(HJ)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER012)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER014)	ARC 66-709 QAS9 QAL1A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(UER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

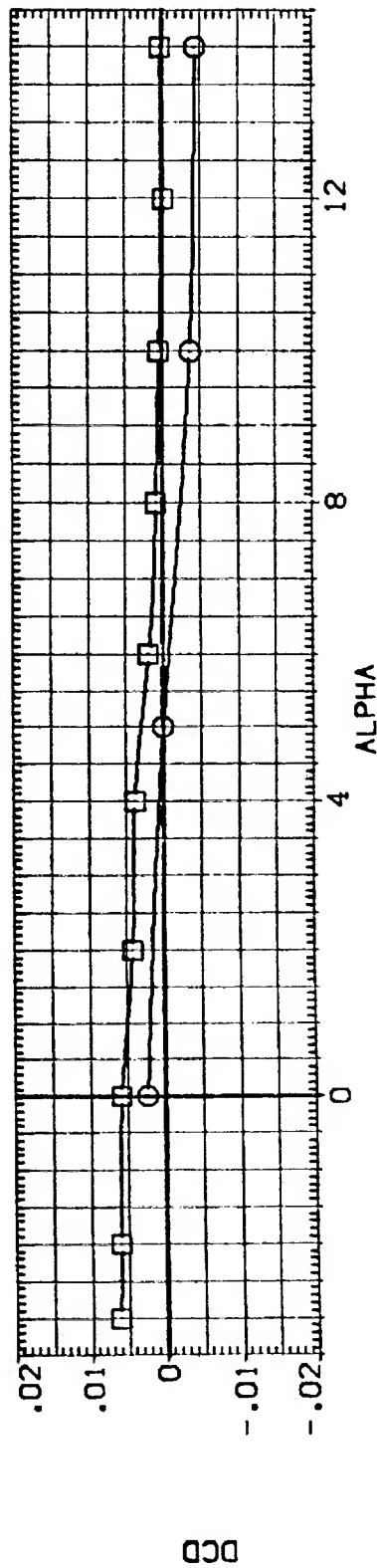
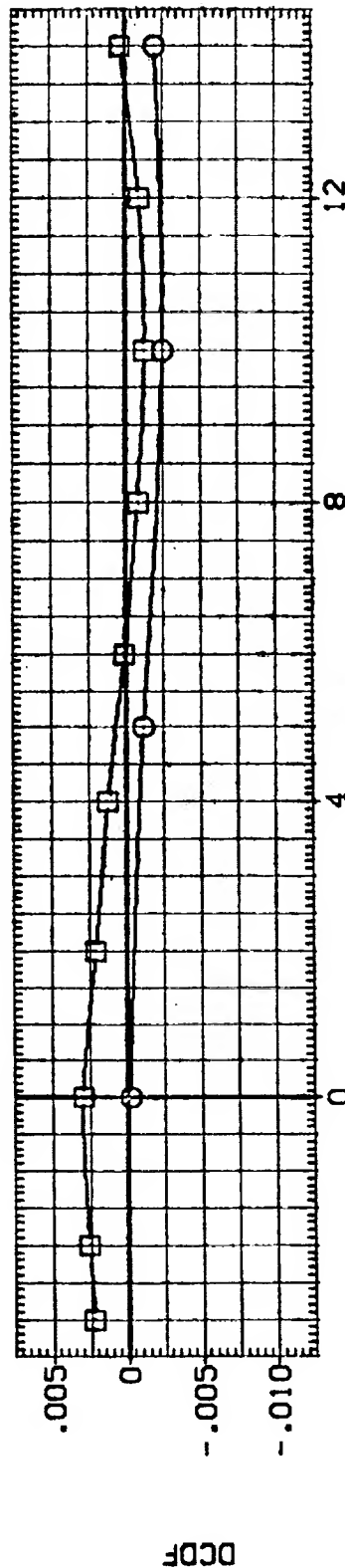
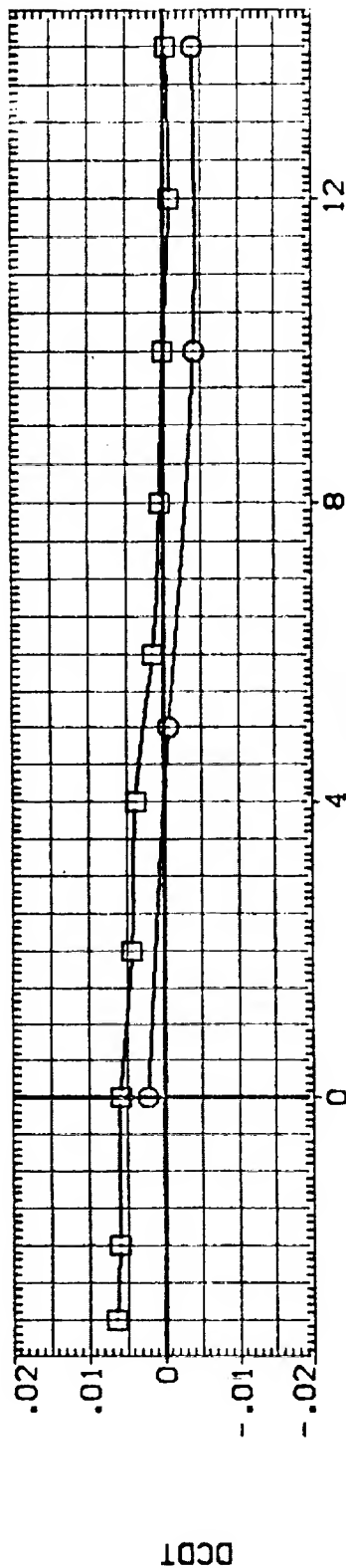


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UERO12)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .5053 SQ.FT.
(UERO14)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	LREF .5935 FT.
(UERO15)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

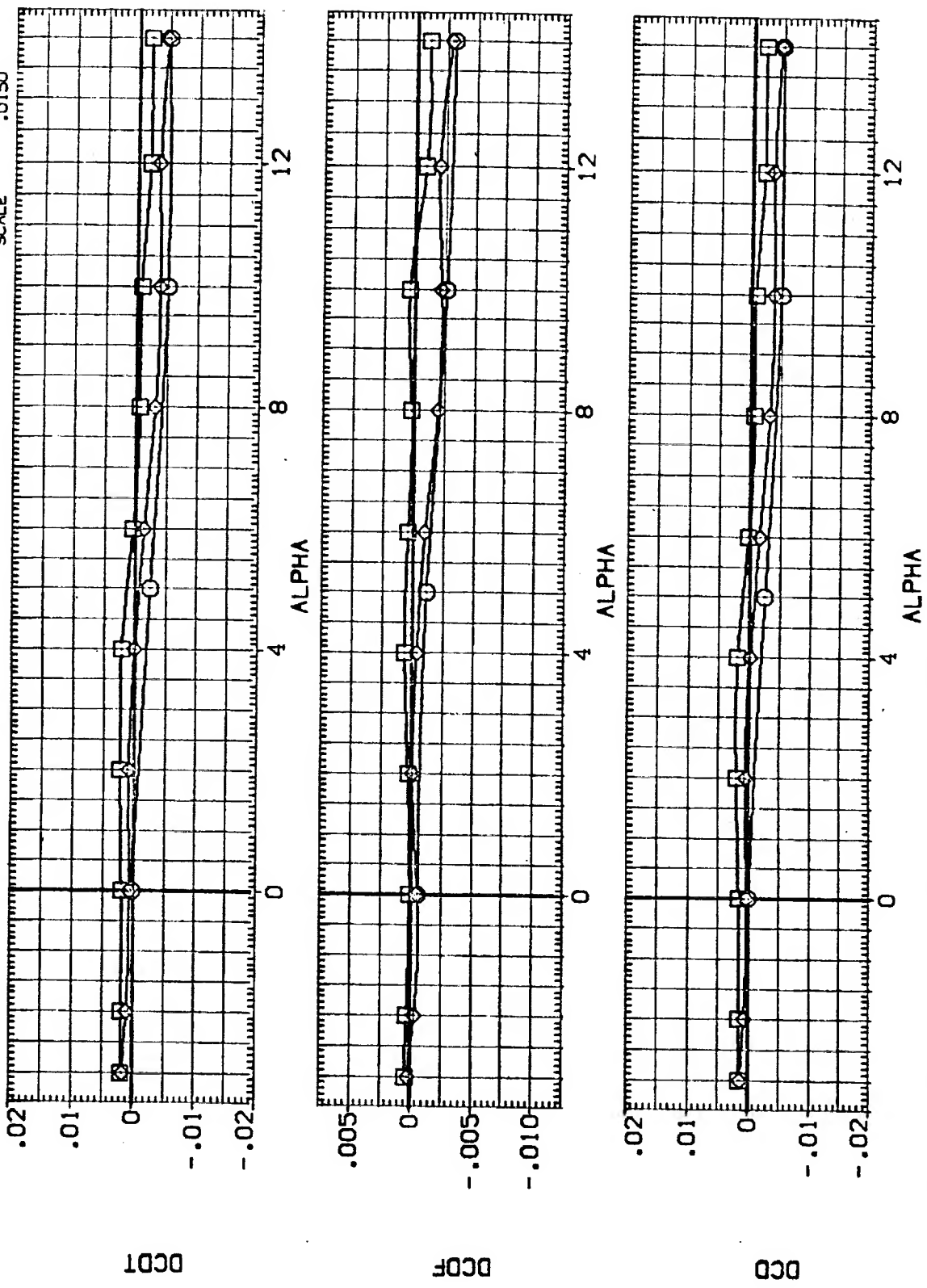


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

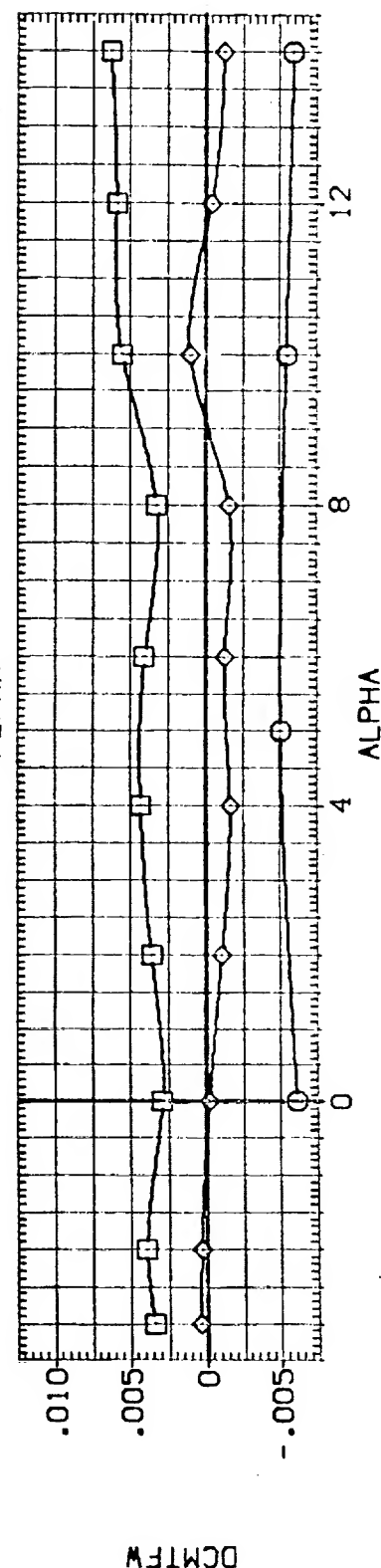
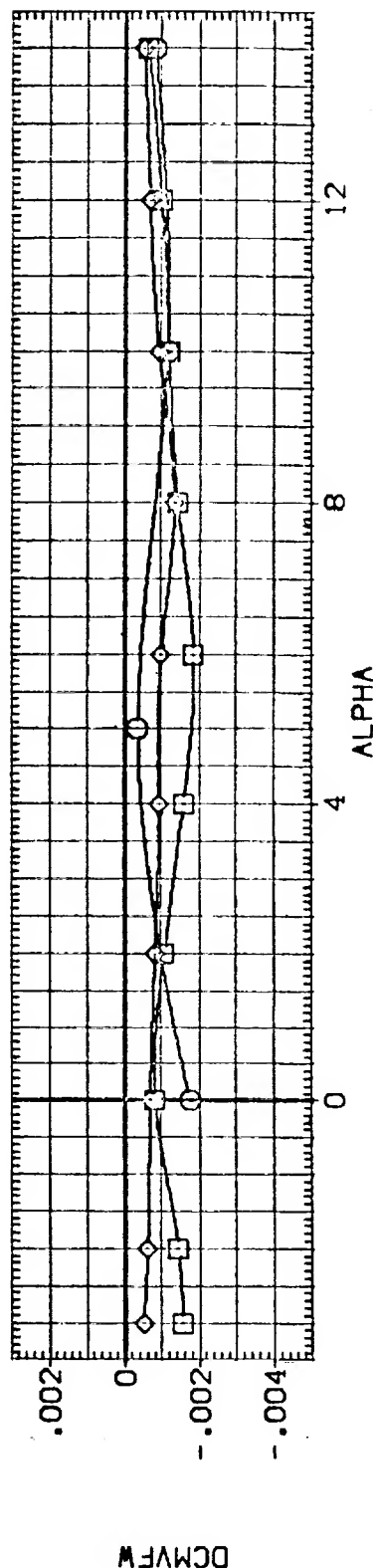
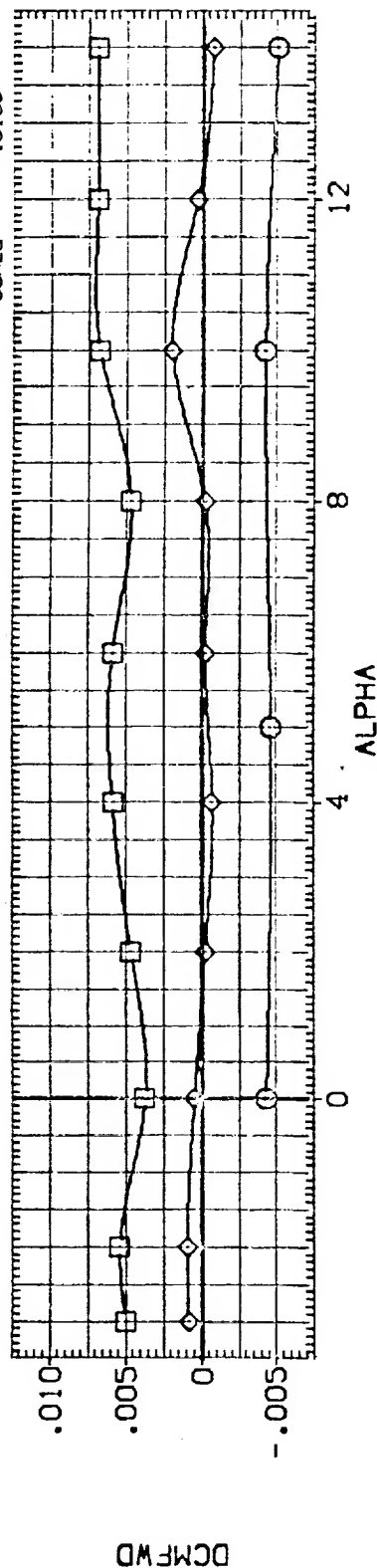


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VERO12) ARC 66-709 DASH 0A11A-(RS V81)+STRUT
 (VERO14) ARC 66-709 DASH 0A11A-(RS V8)+STRUT
 (VERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

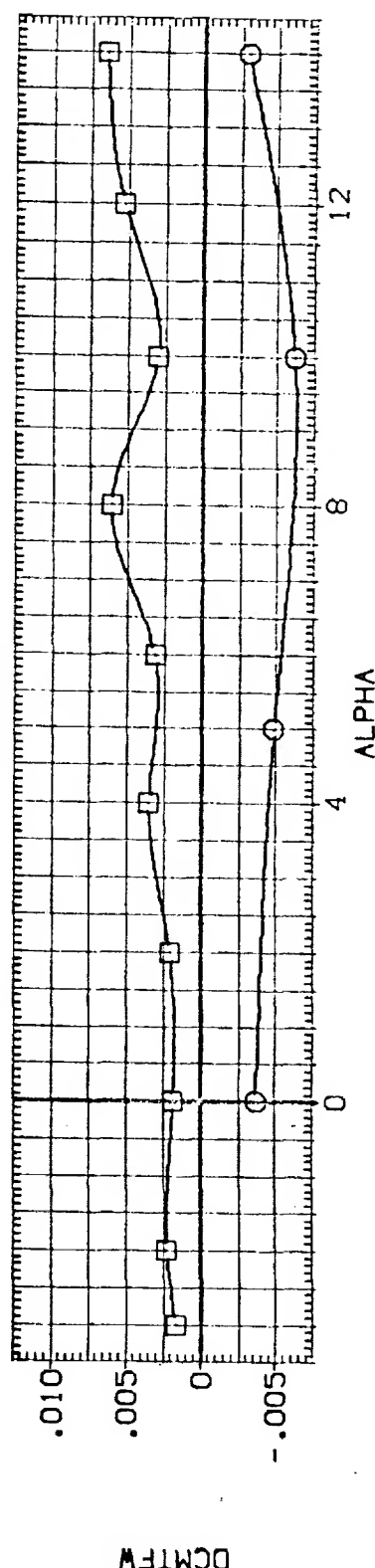
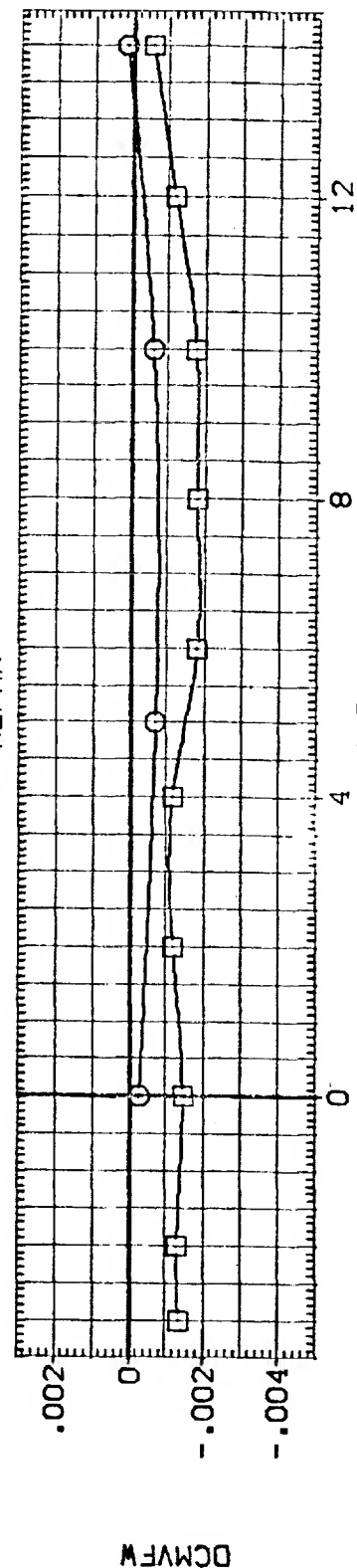
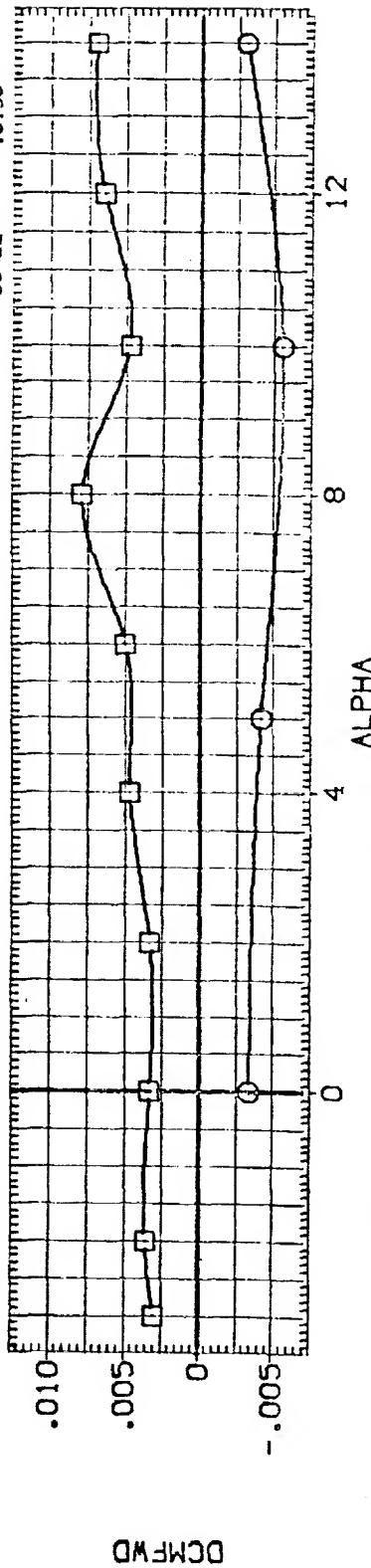


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

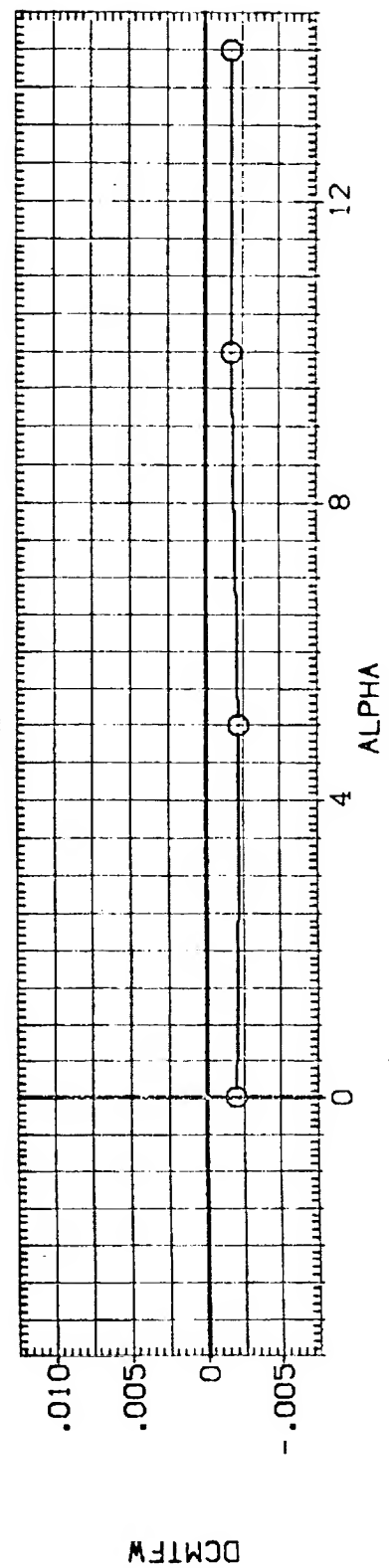
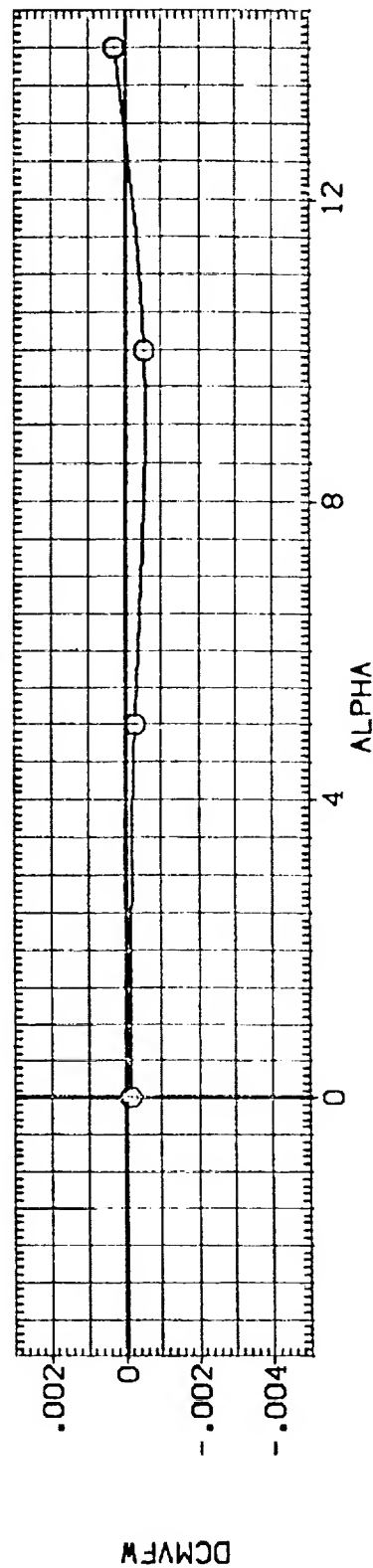
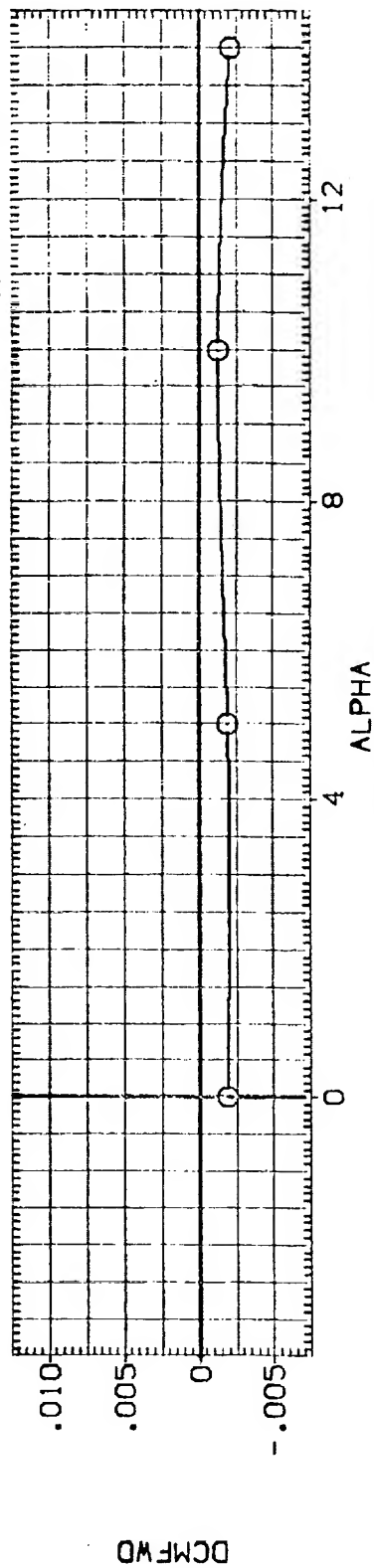


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 0A11A-(RS V8)+STRUT
 (VER014) ARC 66-709 0A11A-(RS V8)+STRUT
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5035 FT.
 QREF 1.1710 FT.
 XMOY 12.6255 IN.
 YMOY .0000 IN.
 ZMOY -.3750 IN.
 SCALE .0150

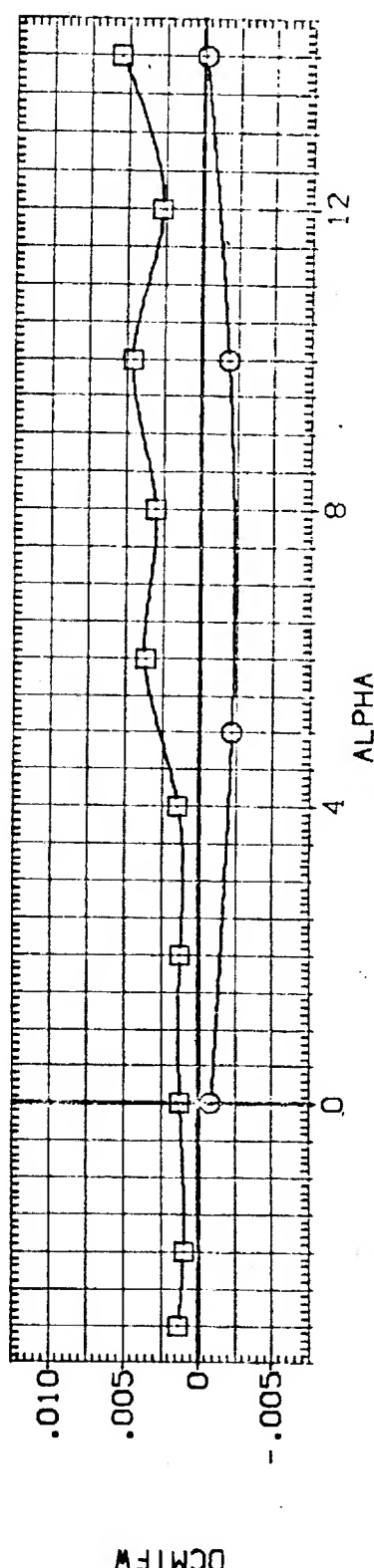
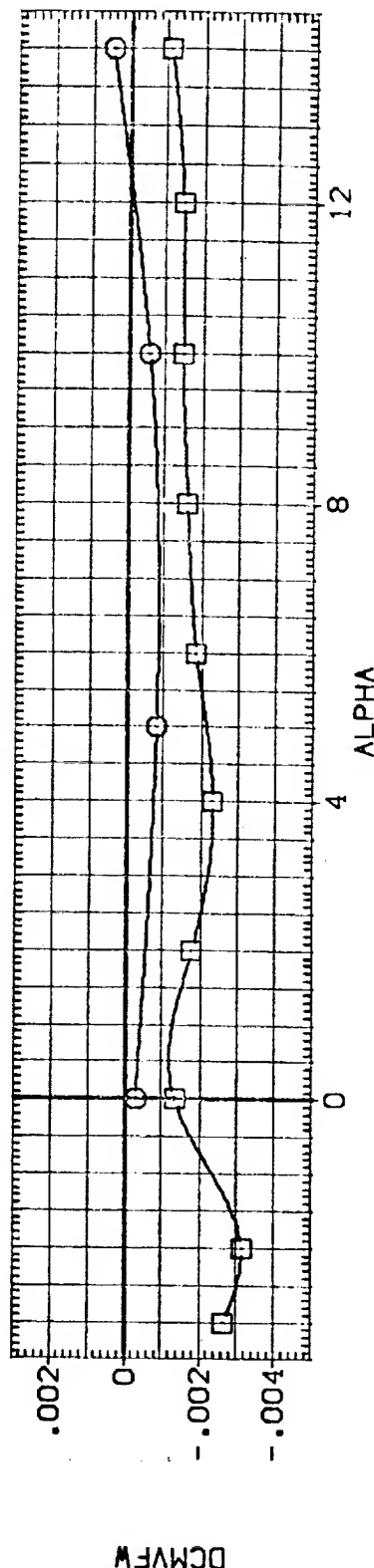
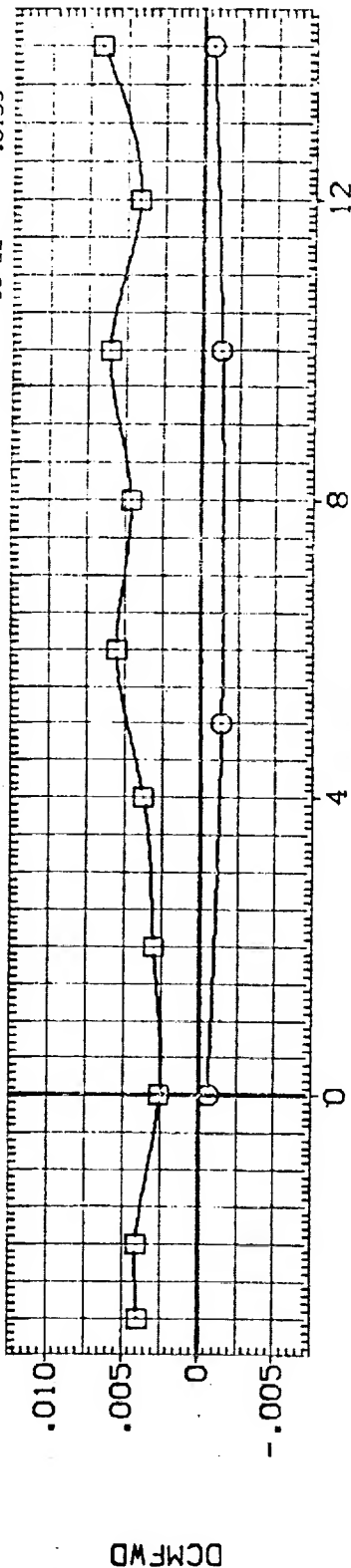


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL (VER012) (VER014) (VER015)

CONFIGURATION DESCRIPTION
ARC 66-709 (A11A)-(RS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA .000
.000
.000

ELEVON .000
.000
.000

BOFLAP -11.700
16.300
.000

REFERENCE INFORMATION
SREF .6053 50.FT.
LREF .5533 FT.
BREF 1.1110 FT.
XMRP 12.6235 IN.
YMRP .0000 IN.
ZMRP -3.7500 IN.
SCALE .0150

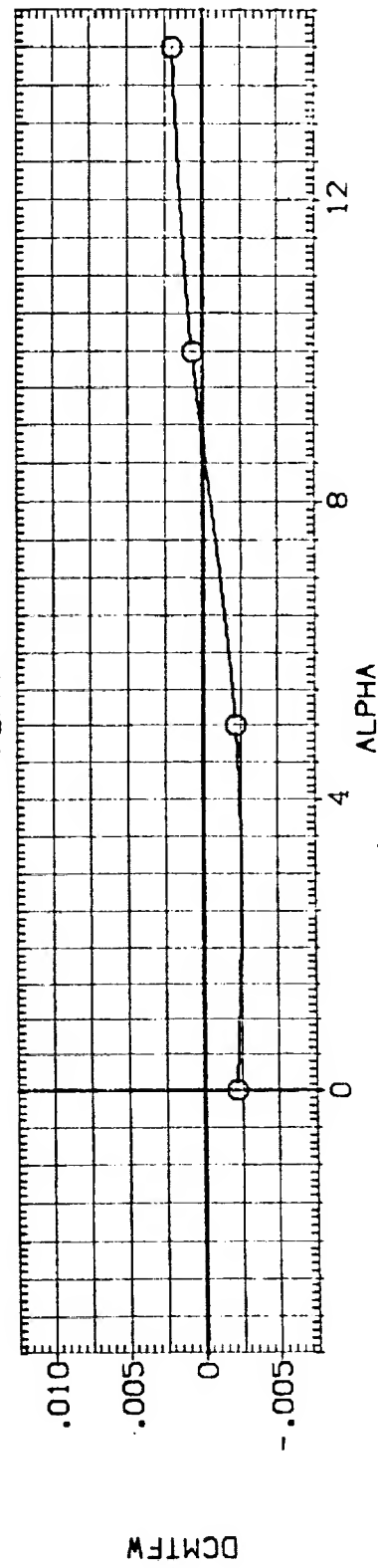
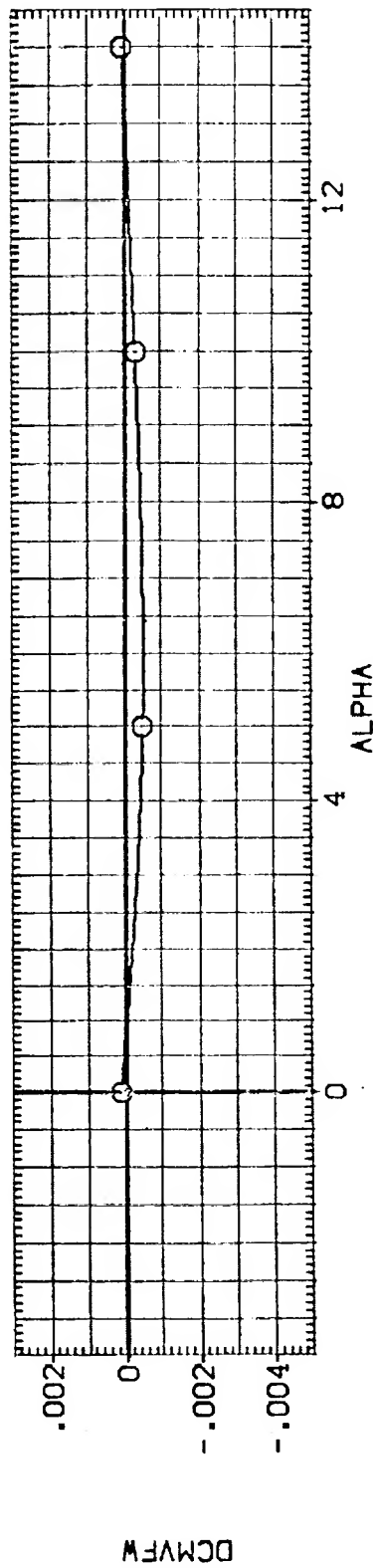
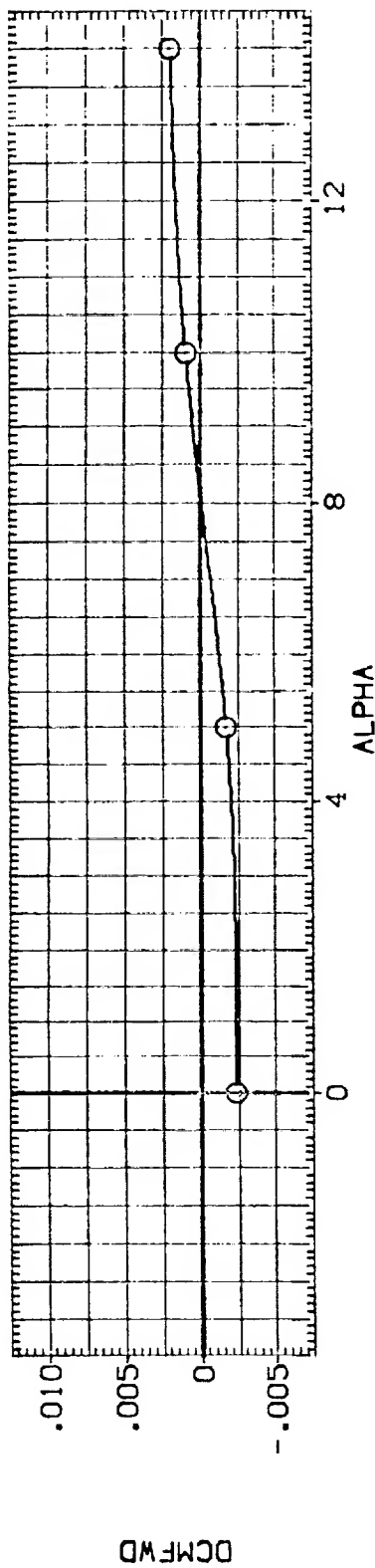


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XREF 12.6255 IN.
					YREF .0000 IN.
					ZREF -.3750 IN.
					SCALE .0150

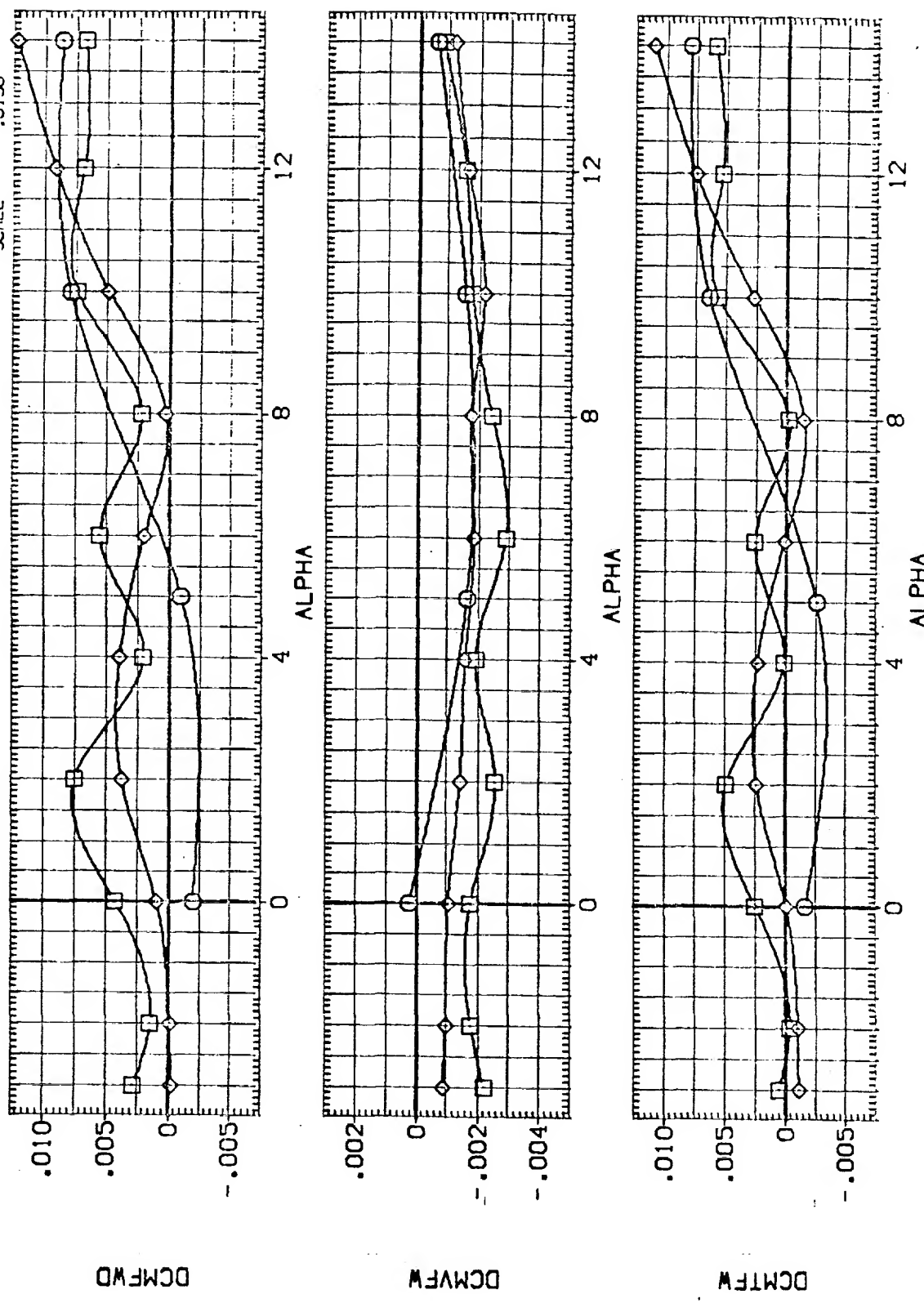


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL (VER012) (VER014) (VER015)

CONFIGURATION DESCRIPTION
ARC 65-709 OAS9 0A11A-(RS V81)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA .000 .000 .000

ELEVON .000 .000 .000

BOFLAP -11.700 16.300 .000

REFERENCE INFORMATION
SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

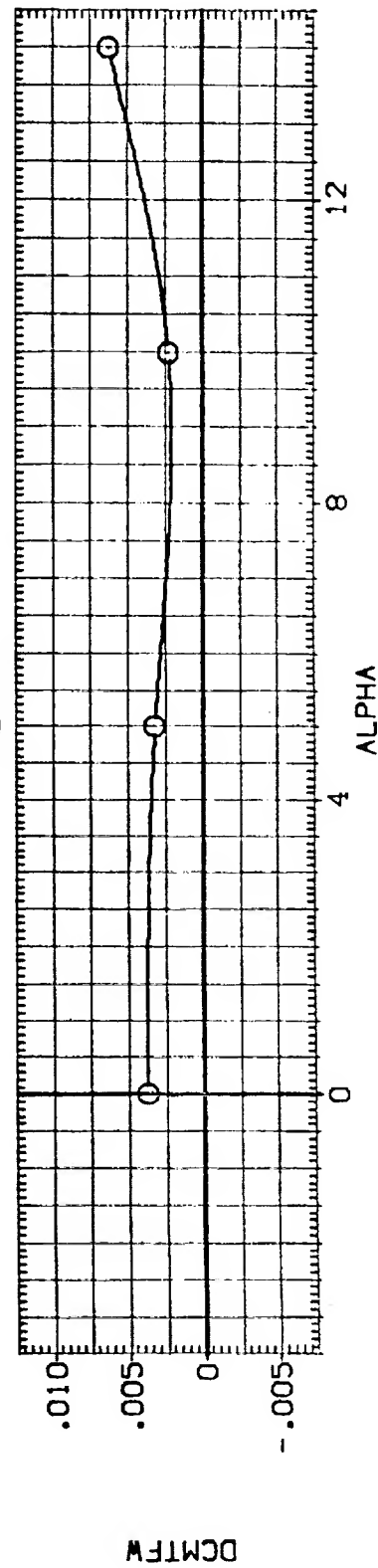
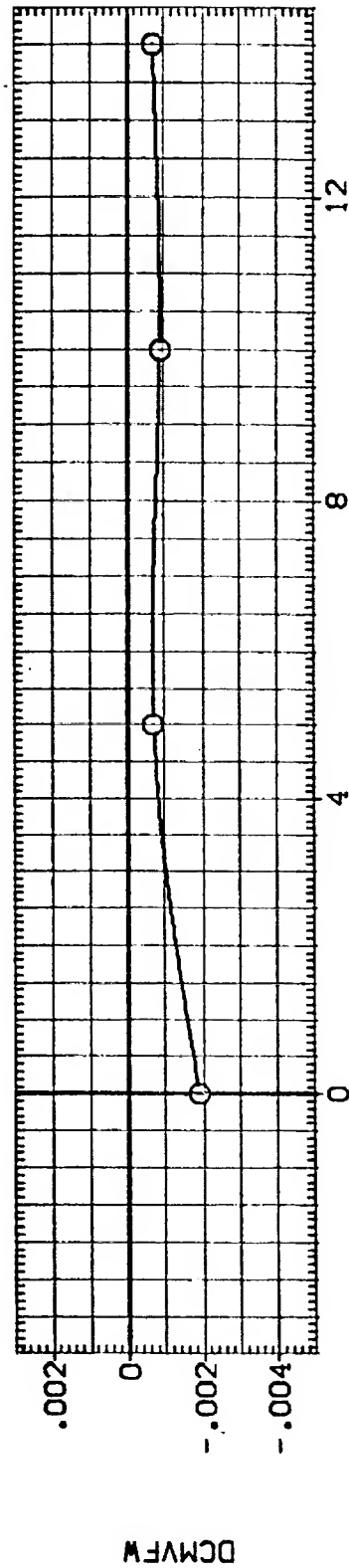
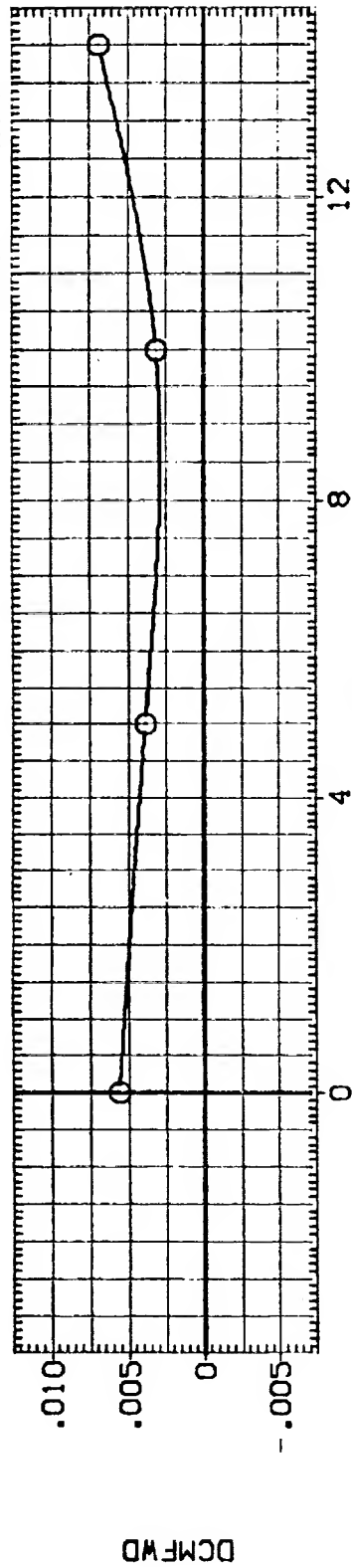


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMPP 12.6255 IN.
					YMPP .0000 IN.
					ZMPP -.3750 IN.
					SCALE .0150

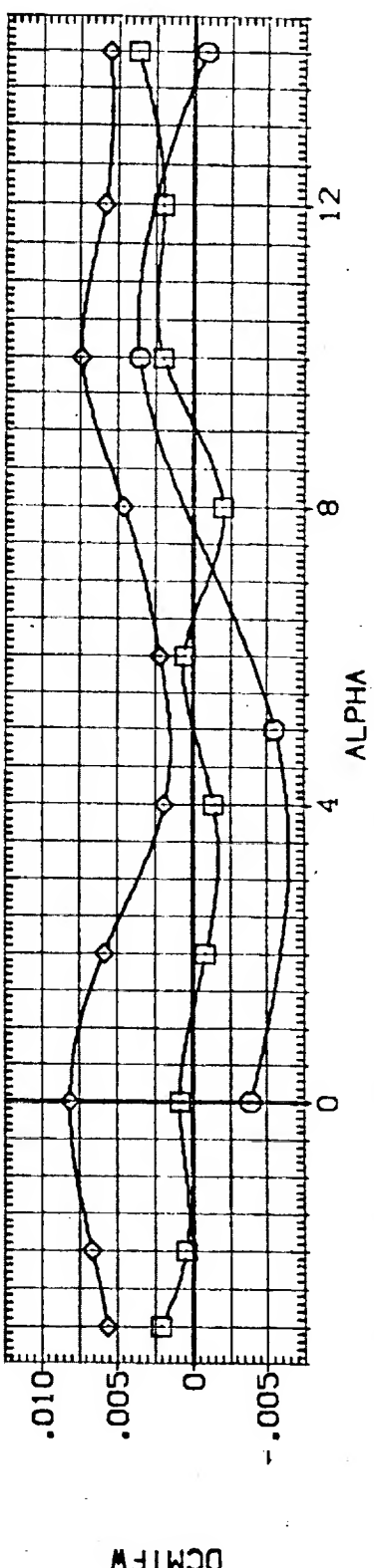
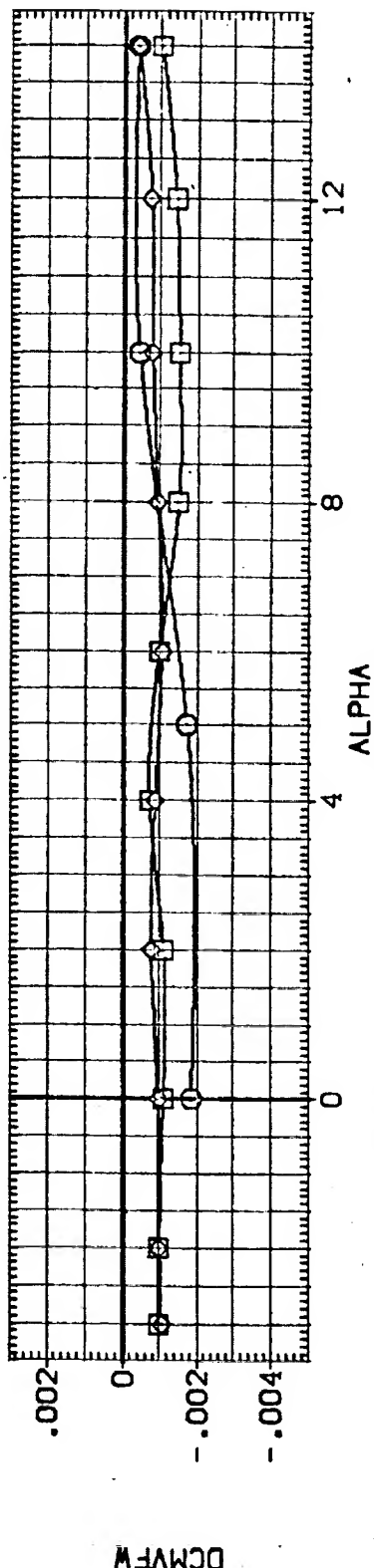
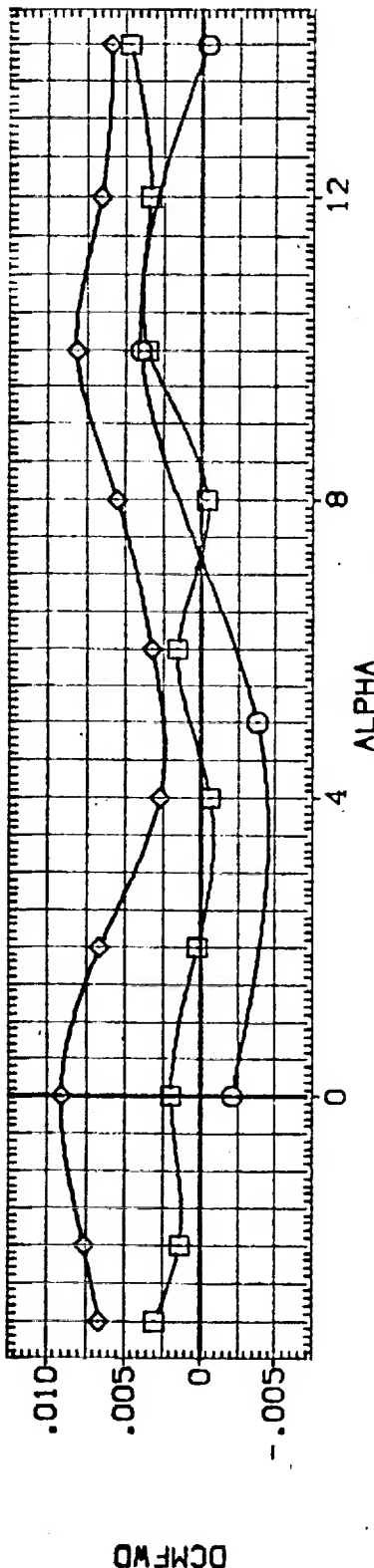


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(HJ)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 65-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 65-709 DASS DA11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

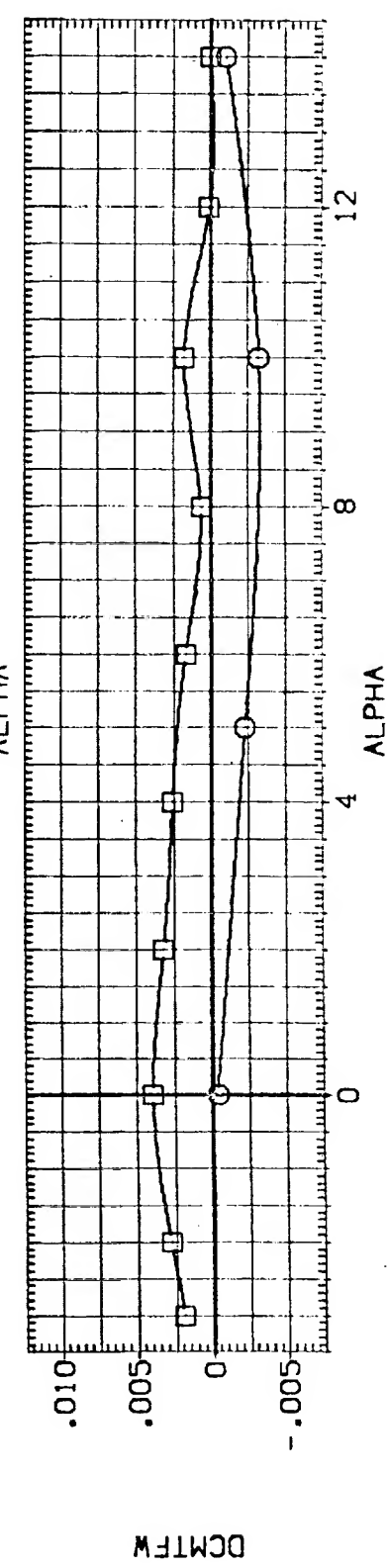
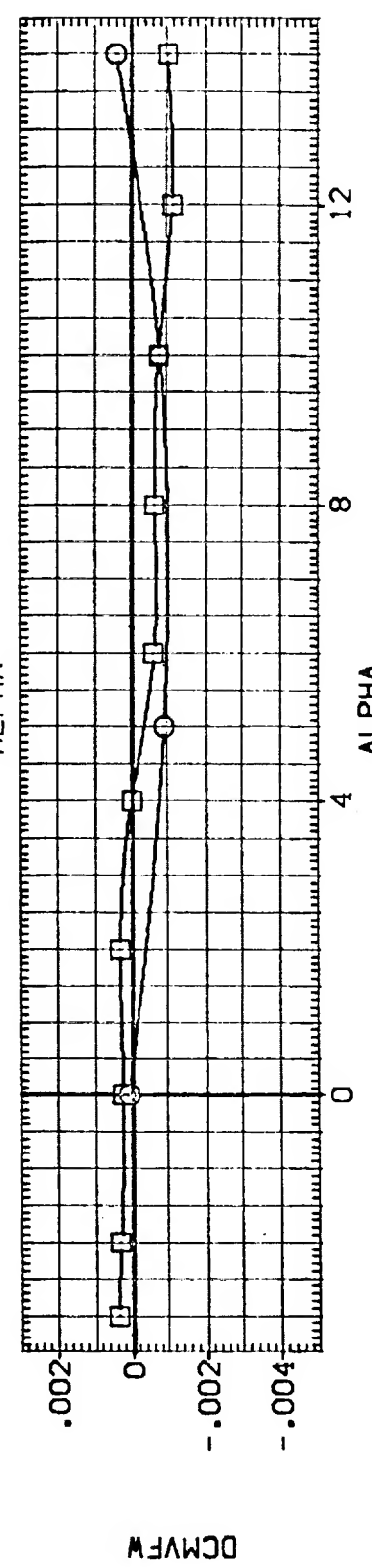
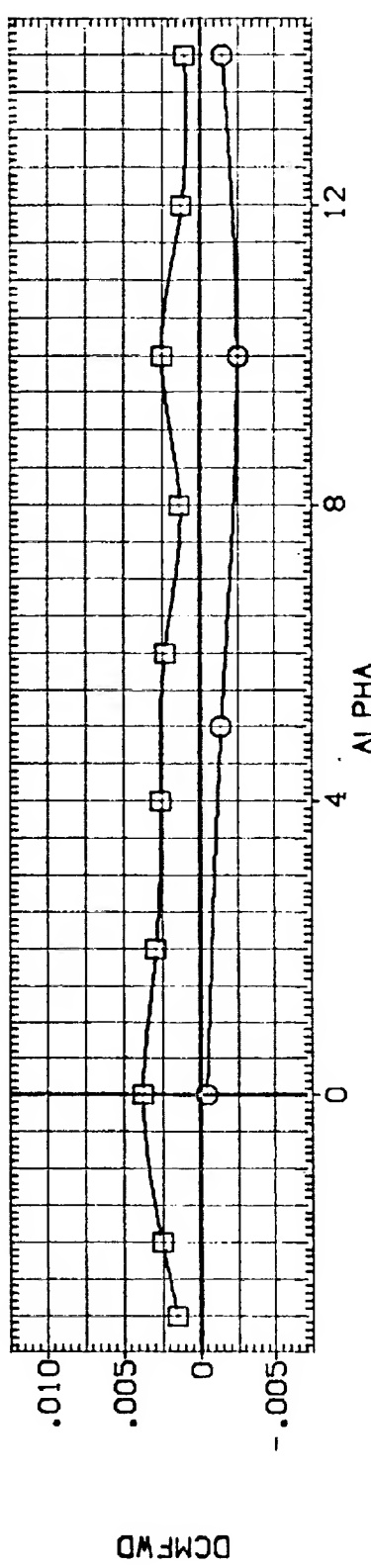


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	LREF .5935 FT.
(VER015)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

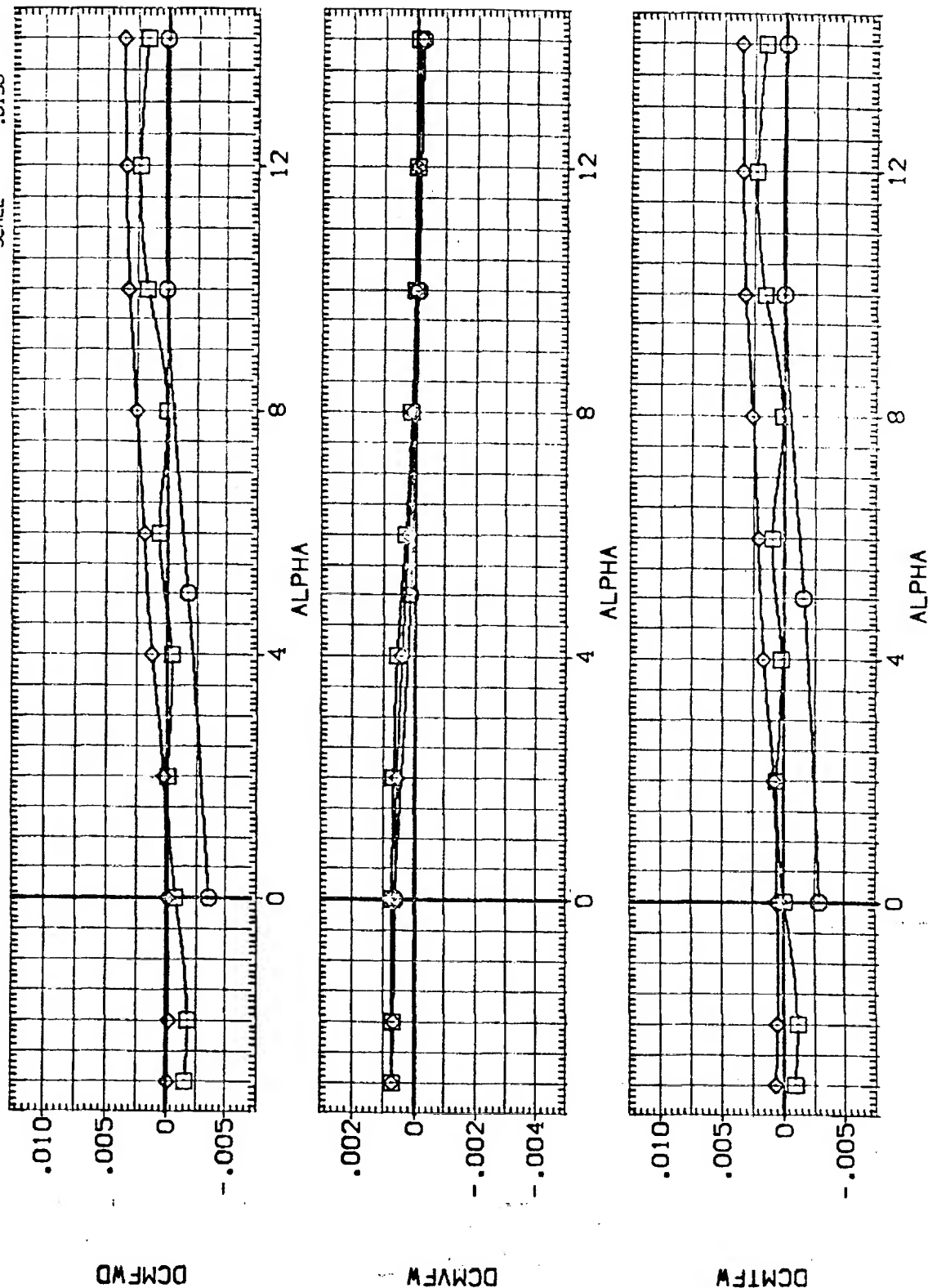
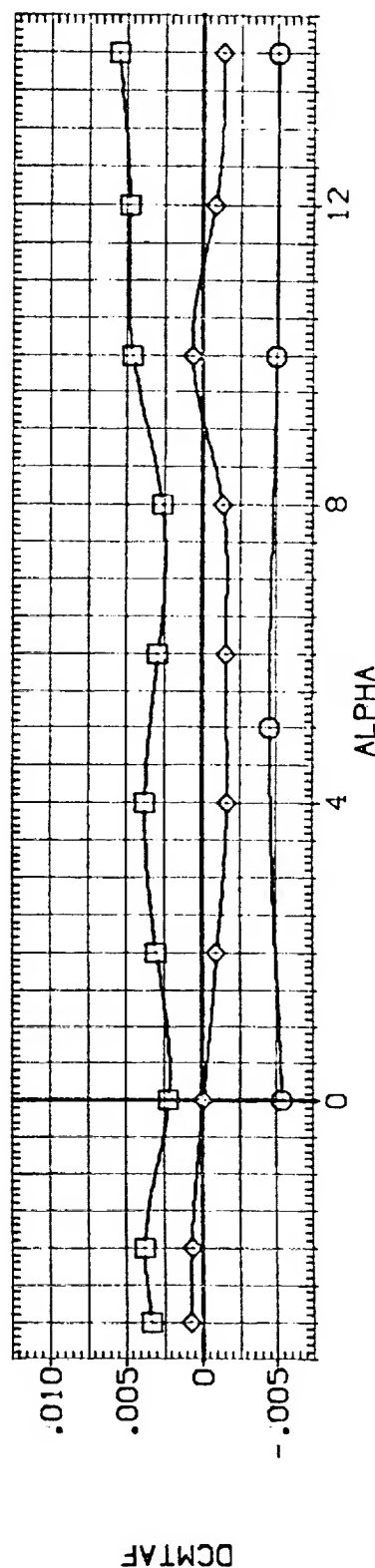


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.5935 FT.
BREF	1.1710 IN.
XMRP	12.6755 IN.
YMRP	.0000 IN.
ZMRP	-.2750 IN.
SCALE	.0150


$$[A]_{MACH} = .60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER014)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

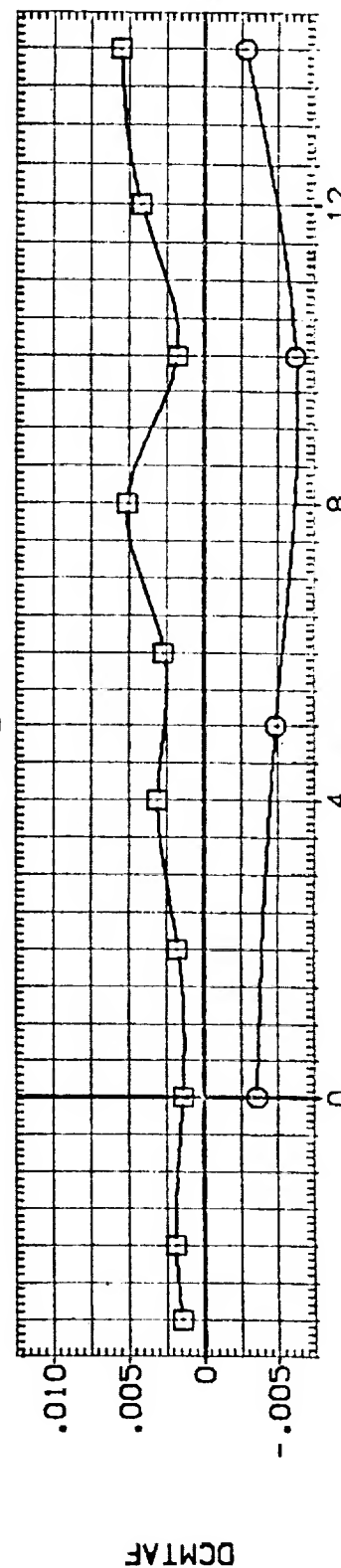
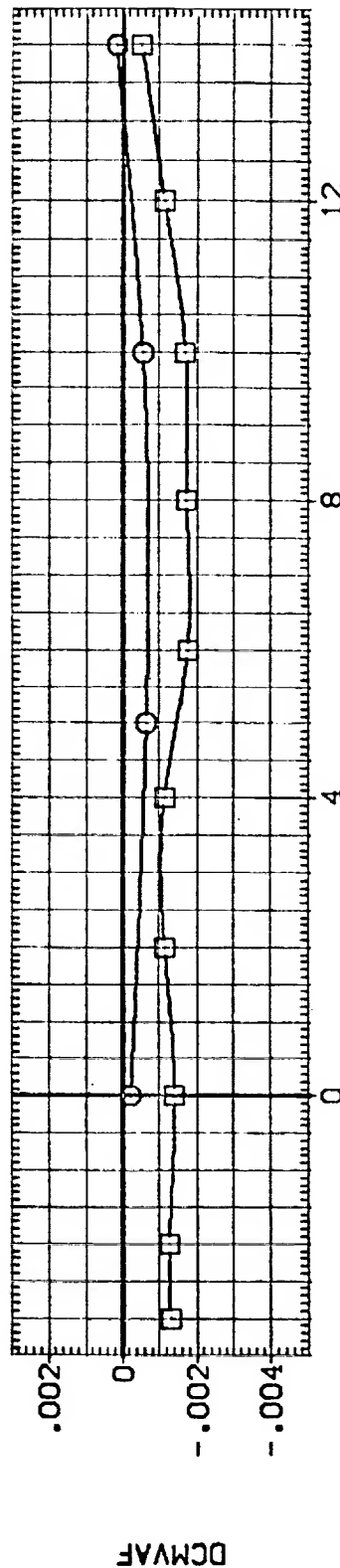
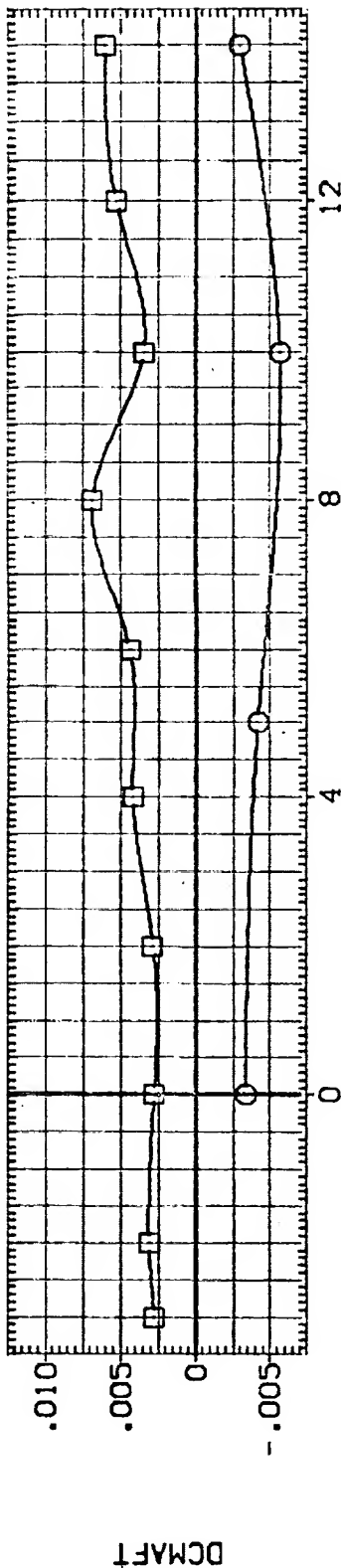


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 OAS9 DAI1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER014)	DATA NOT AVAILABLE	.000	.000	.000	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

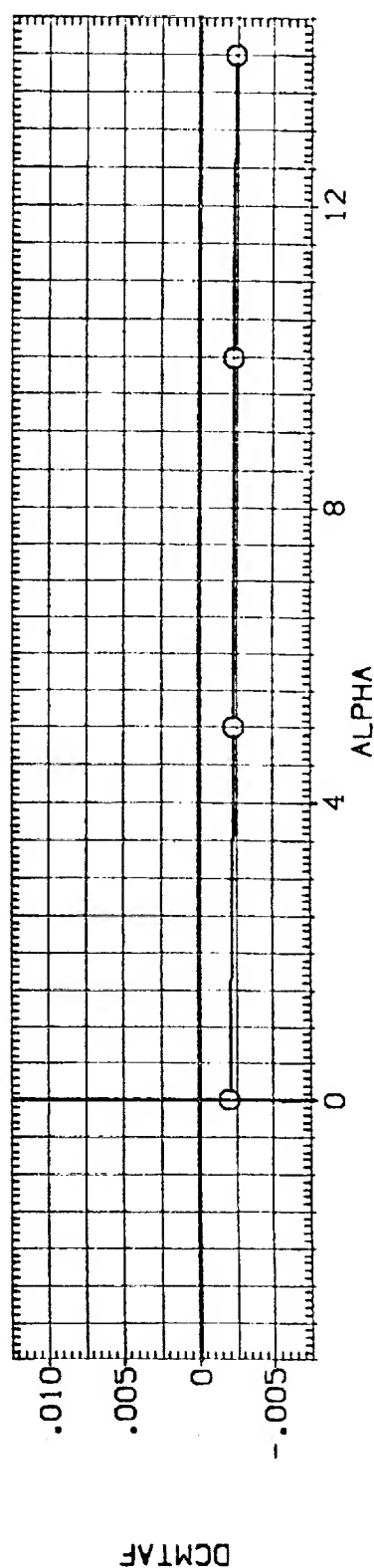
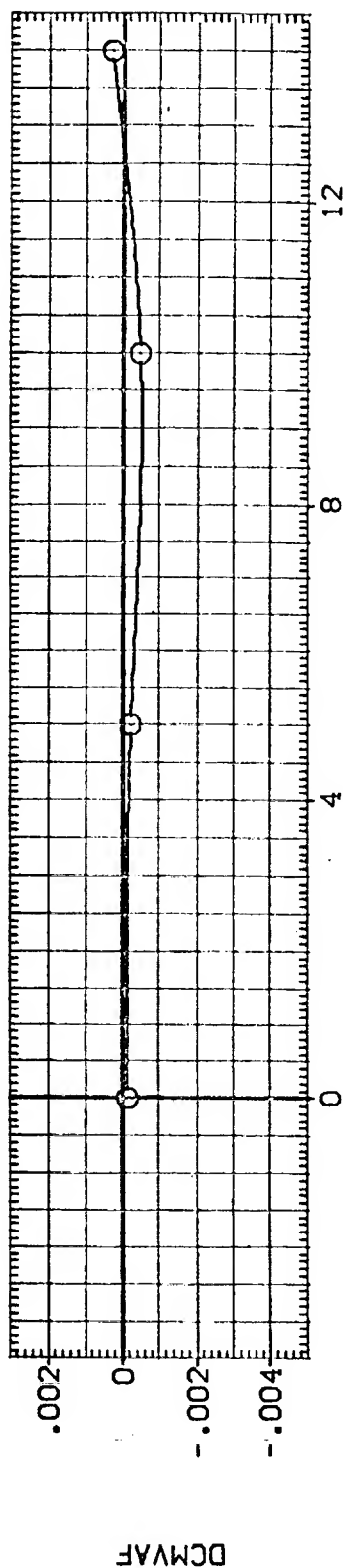
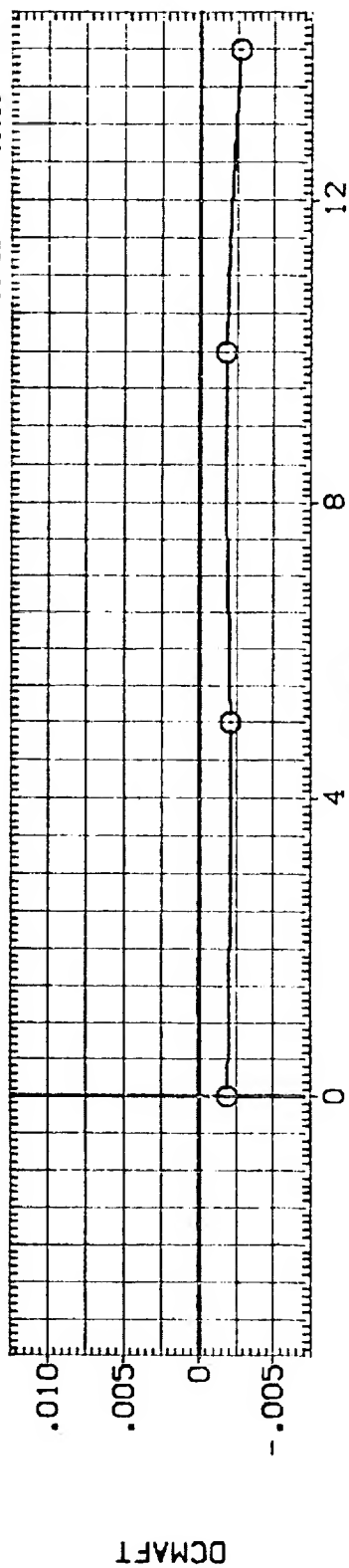


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 OAS9 CA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 OAS9 CA11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRF 12.6255 IN.
					ZMRF -.3750 IN.
					SCALE .0150

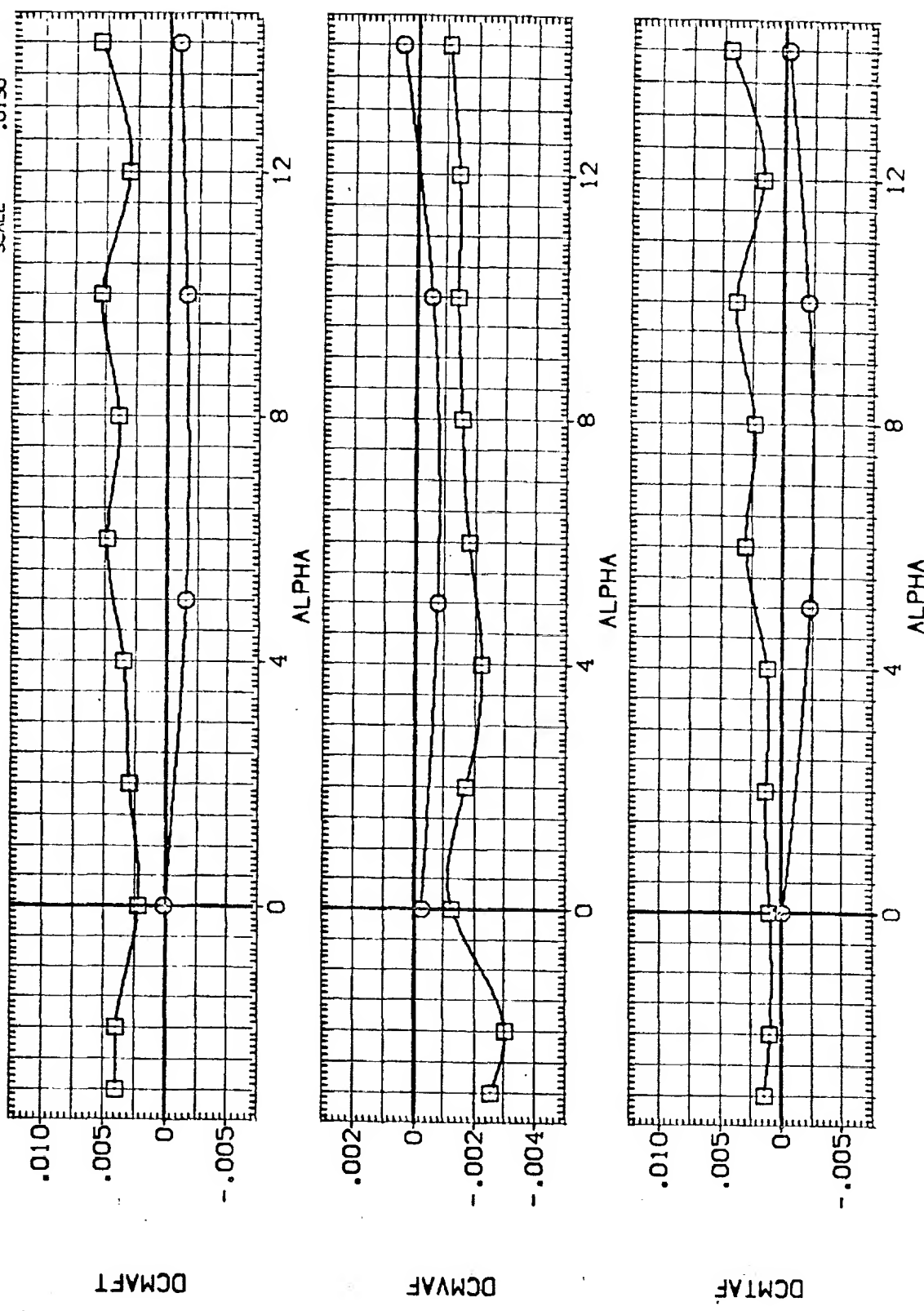


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

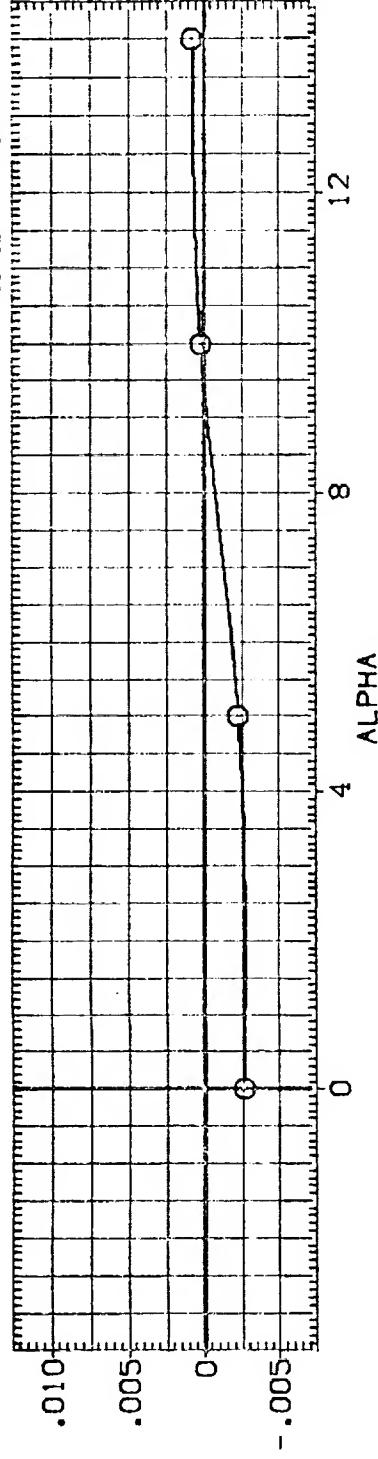
(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 DASS DA11A-(RS V8)+STRUT
 (VER014) DATA NOT AVAILABLE
 (VER015) DATA NOT AVAILABLE

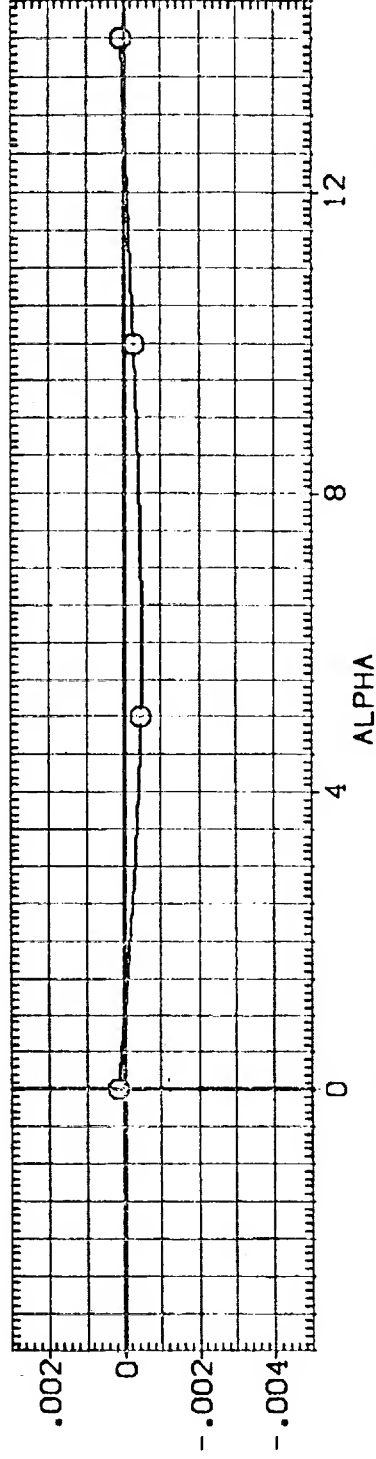
BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

DCMFT



DCMVA



DCMTA

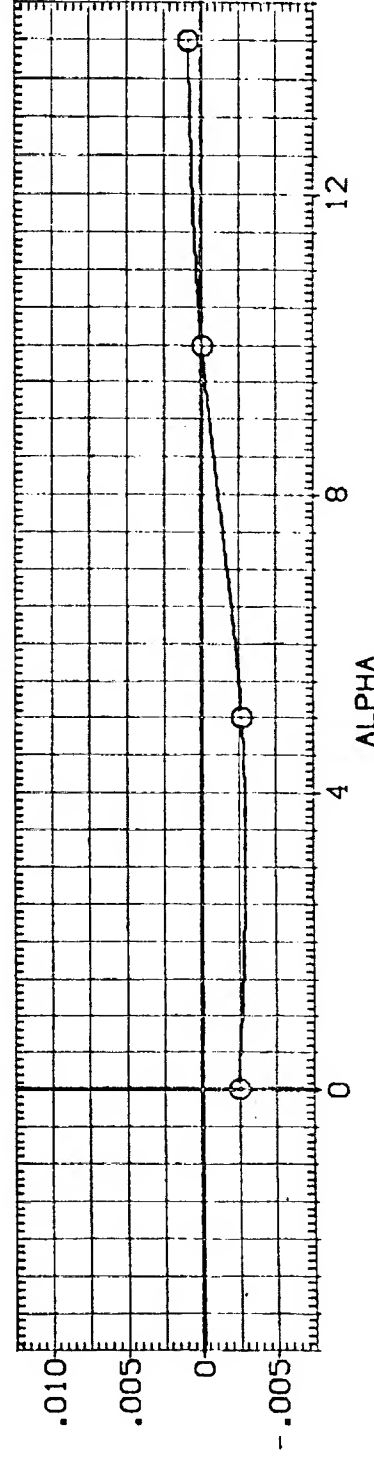


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL: (VER012), (VER014), (VER015)
 CONFIGURATION DESCRIPTION:
 ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT
 ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT
 ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT
 REFERENCE INFORMATION:
 SREF: .6053 50.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

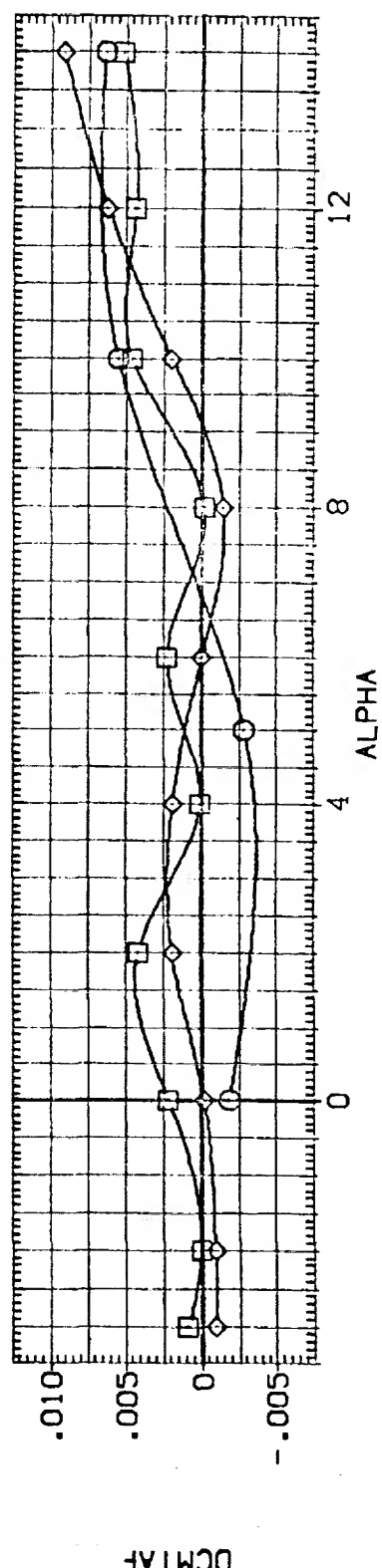
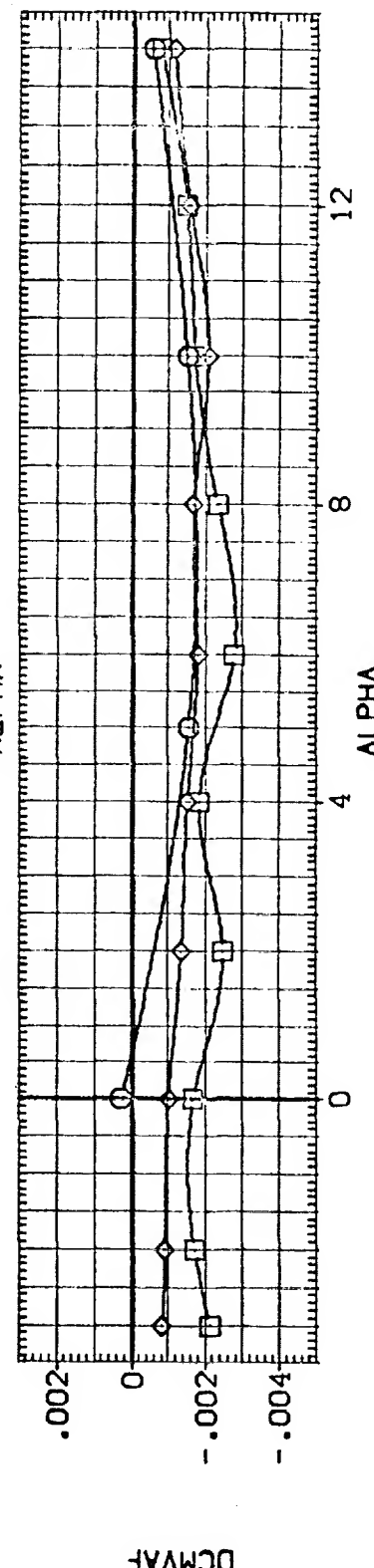
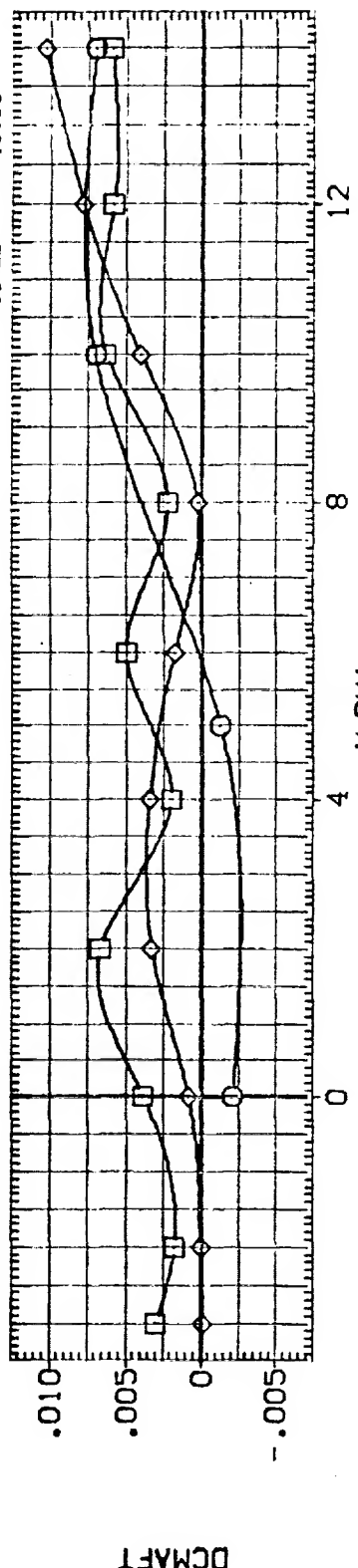


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 QAS9 0A11A-(RS V8)+STRUT
 (VER014) DATA NOT AVAILABLE
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

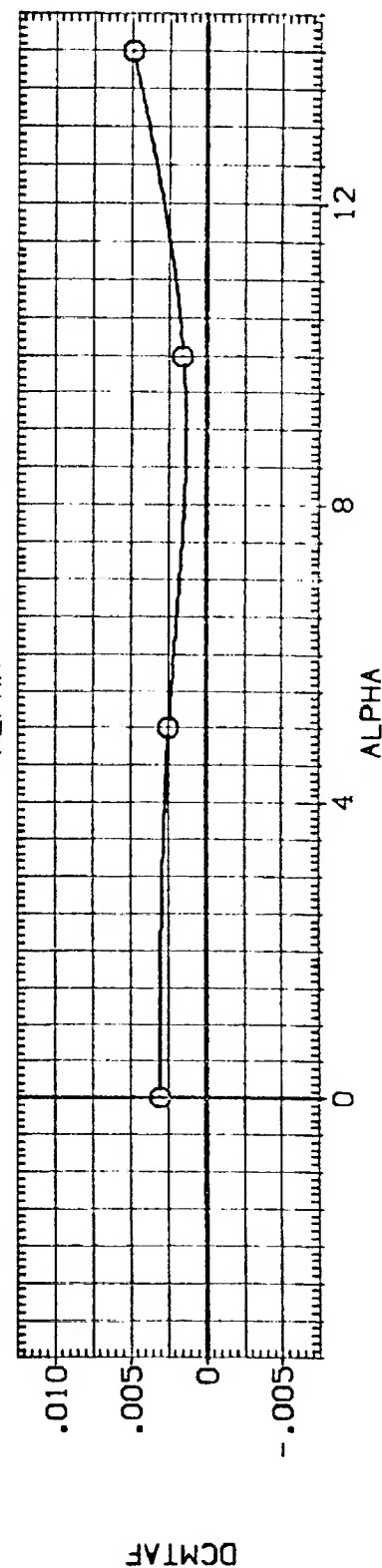
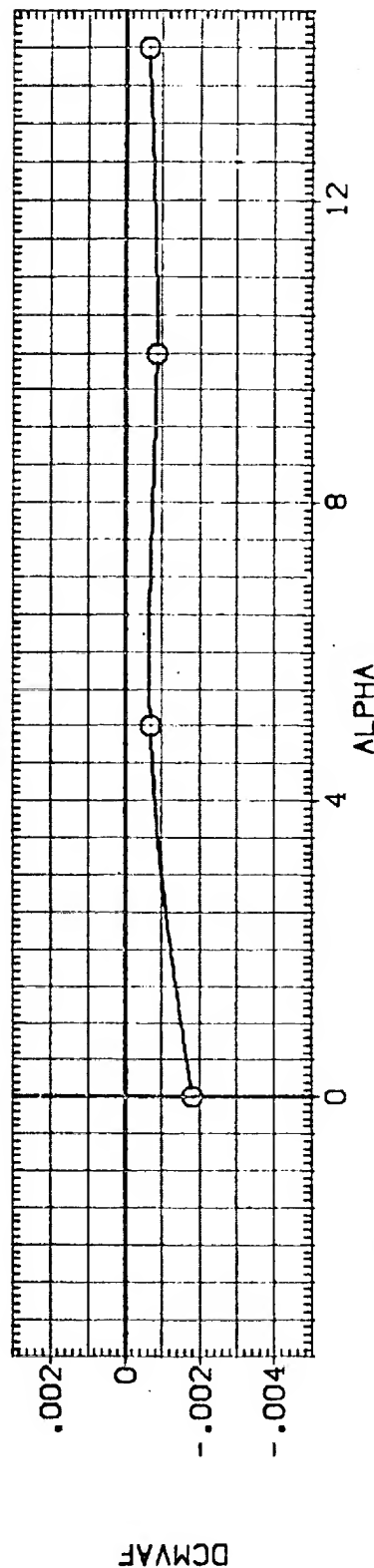
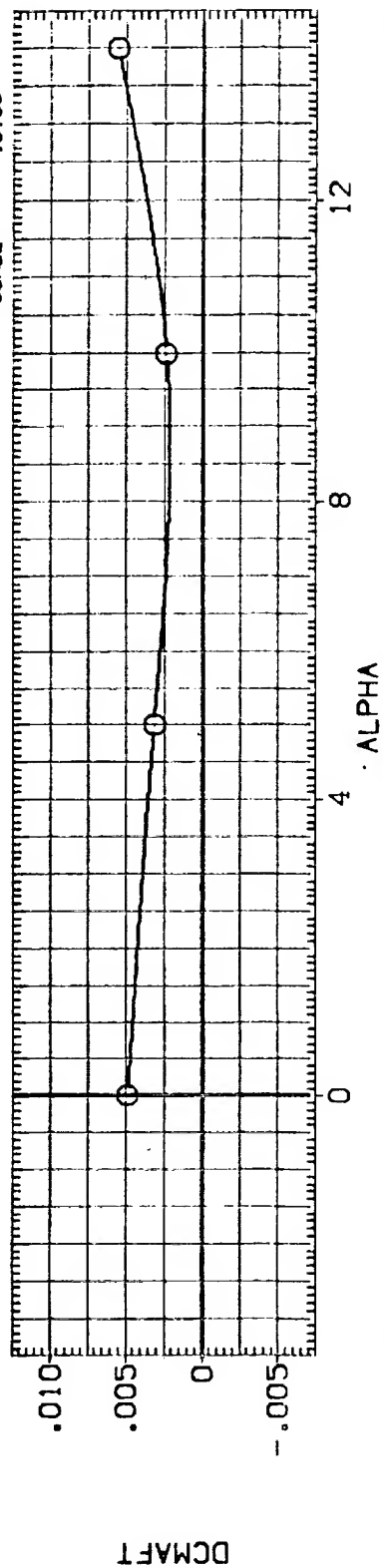


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[VER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
[VER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
[VER015]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

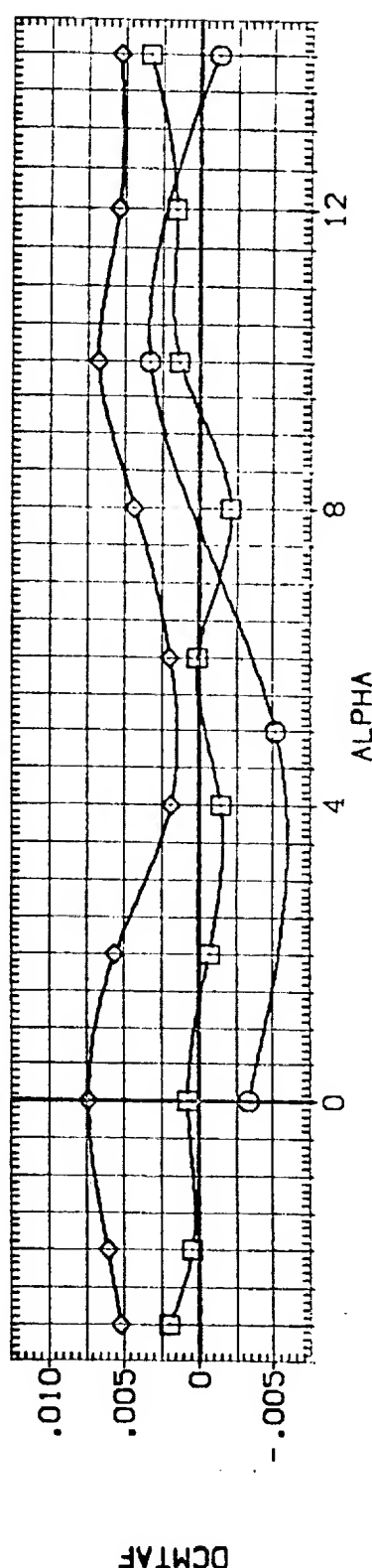
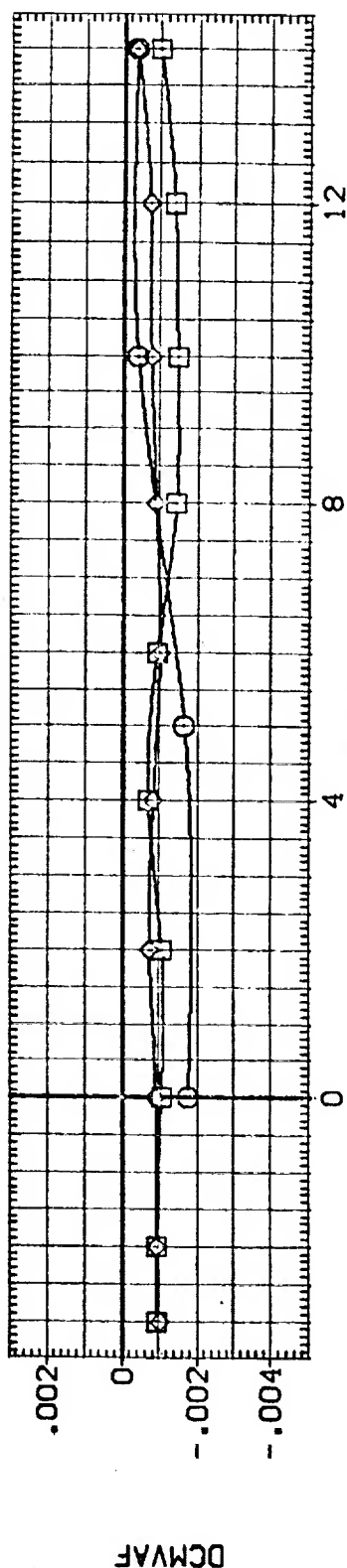
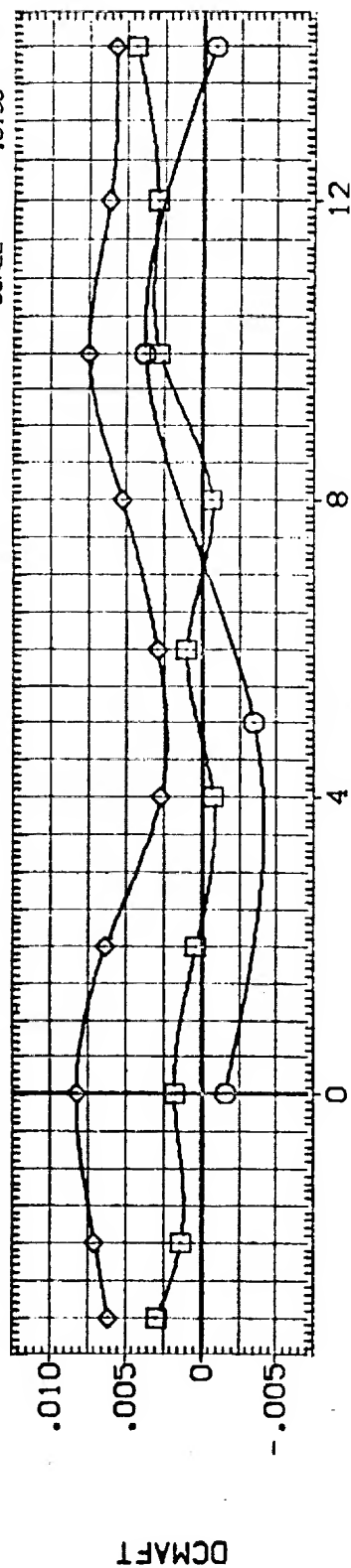


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 OAS9 DA11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

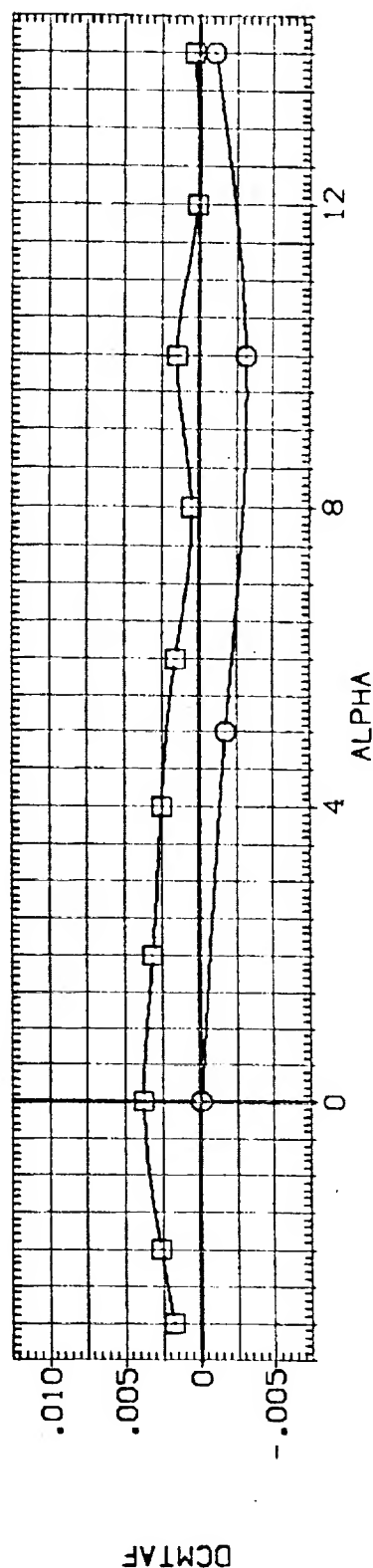
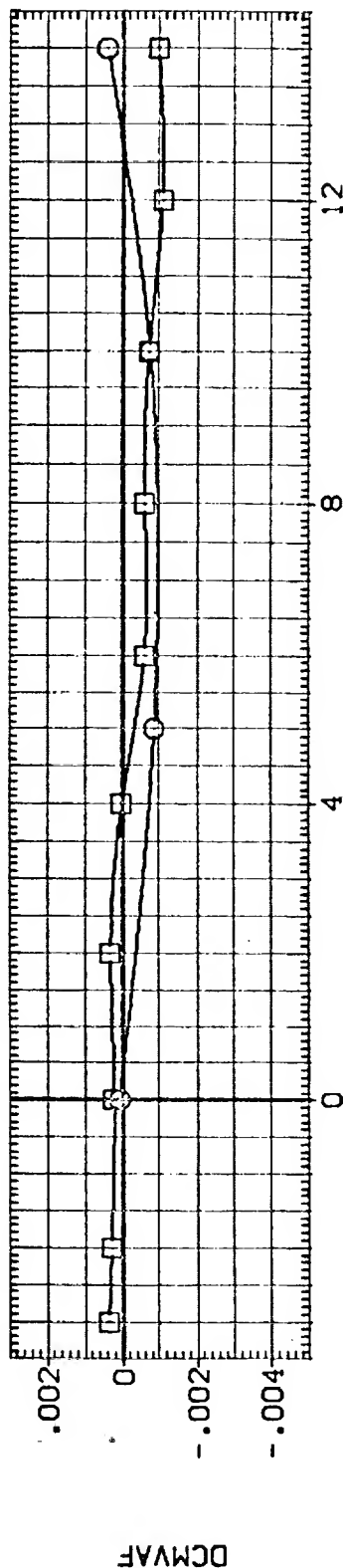
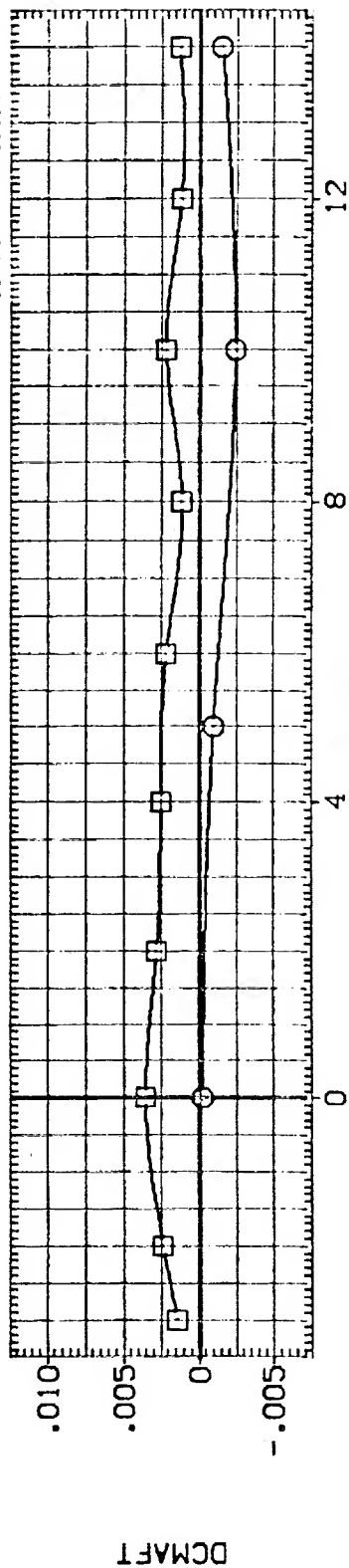


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	80FLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

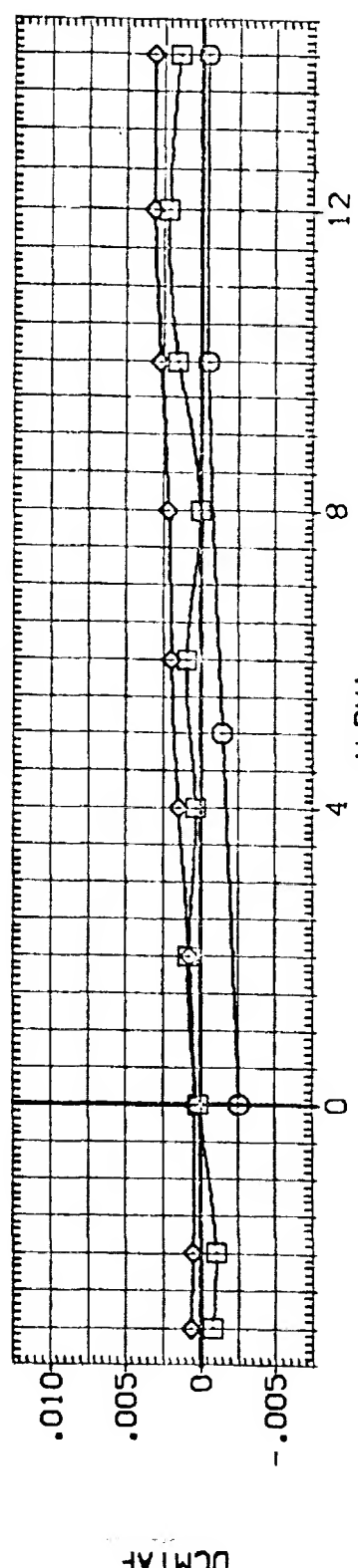
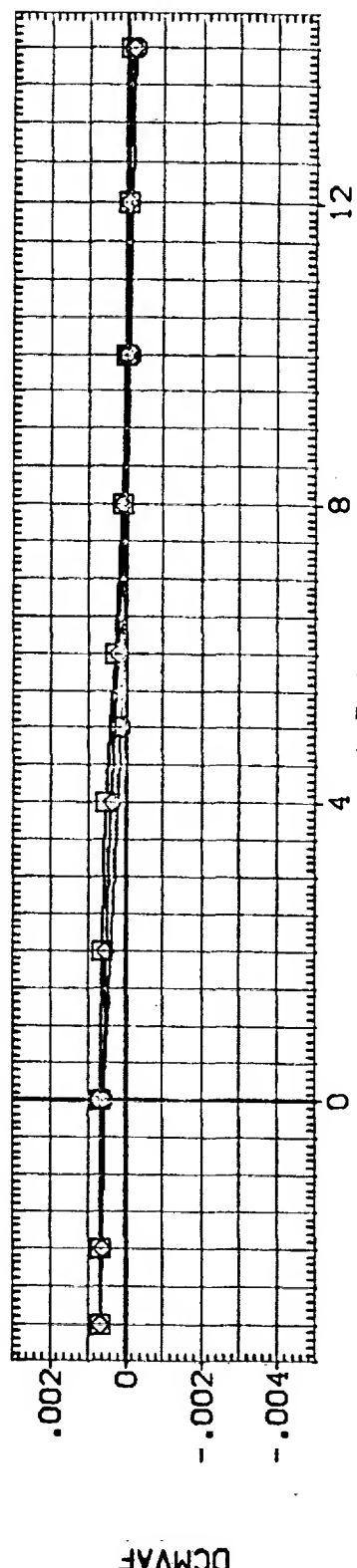
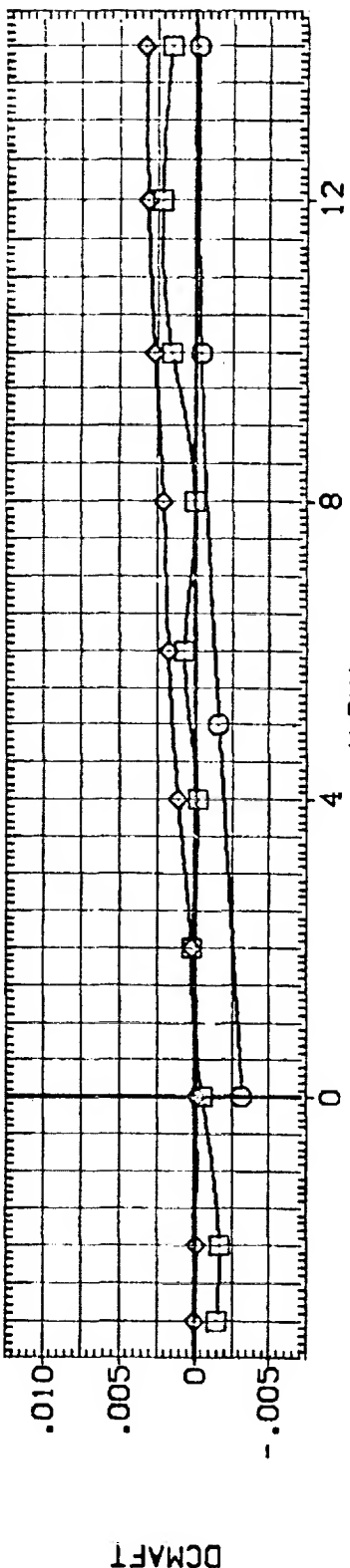


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION	
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	-11.700	SREF	.6053 SO.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	16.300	LREF	.5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V8)-STRUT	.000	.000	.000	BREF	1.1710 FT.
					XMRP	12.6255 IN.
					YMRP	.0000 IN.
					ZMRP	-.3750 IN.
					SCALE	.0150

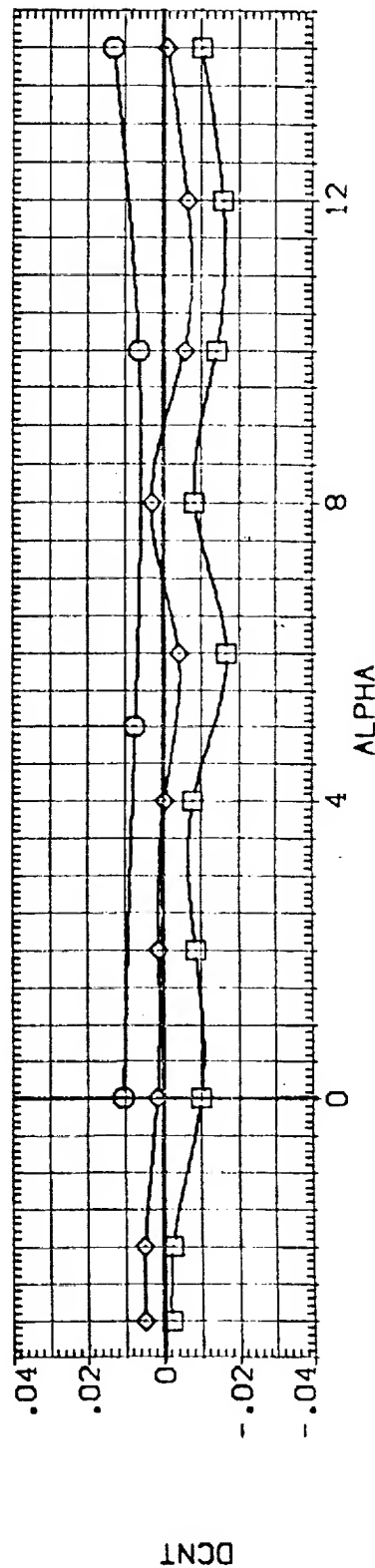
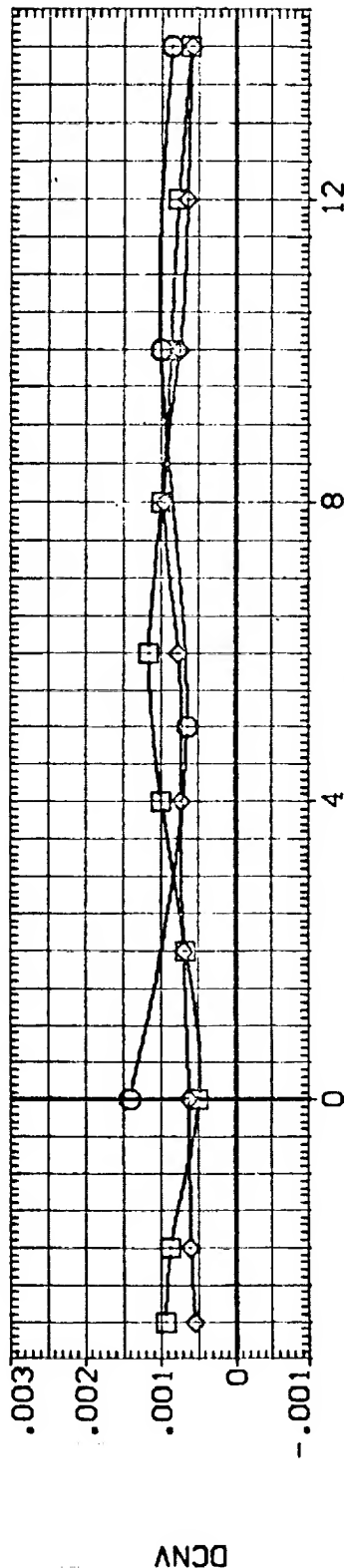
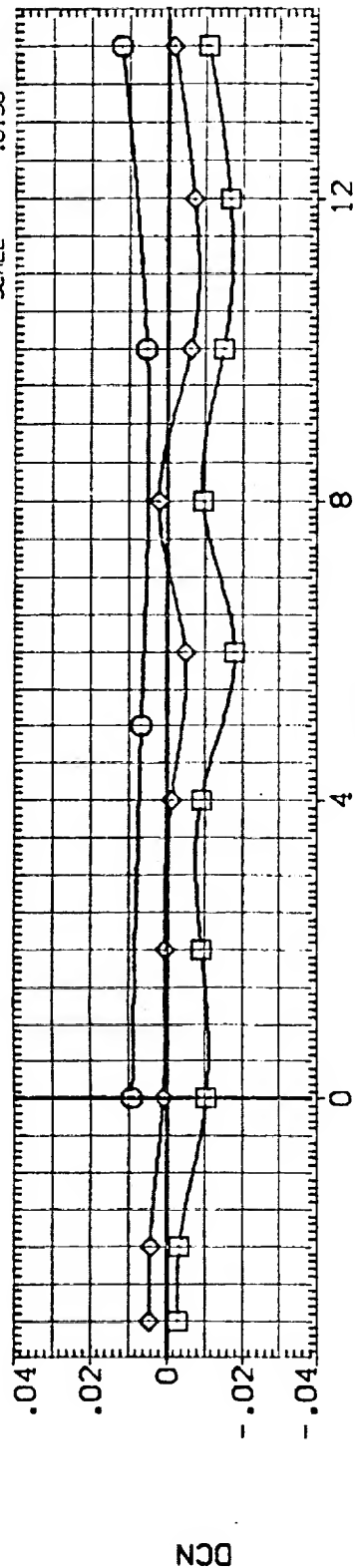


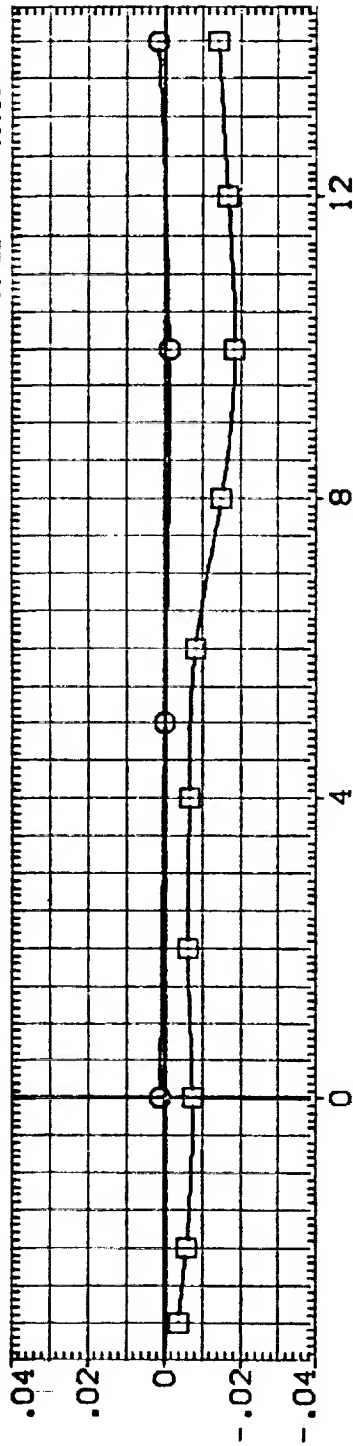
FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

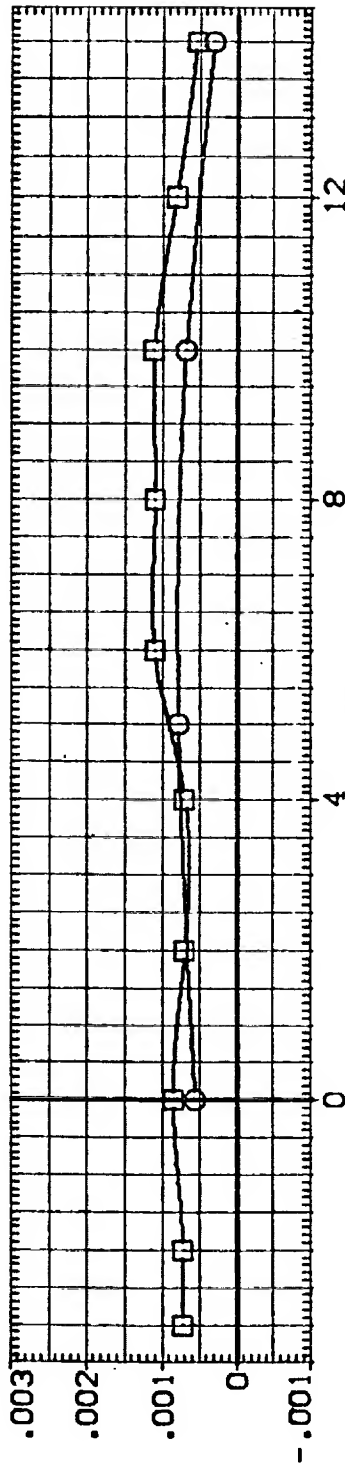
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VERO12) ARC 66-709 D459 D411A-(RS V8)+STRUT
 (VERO14) ARC 66-709 D459 D411A-(RS V8)+STRUT
 (VERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

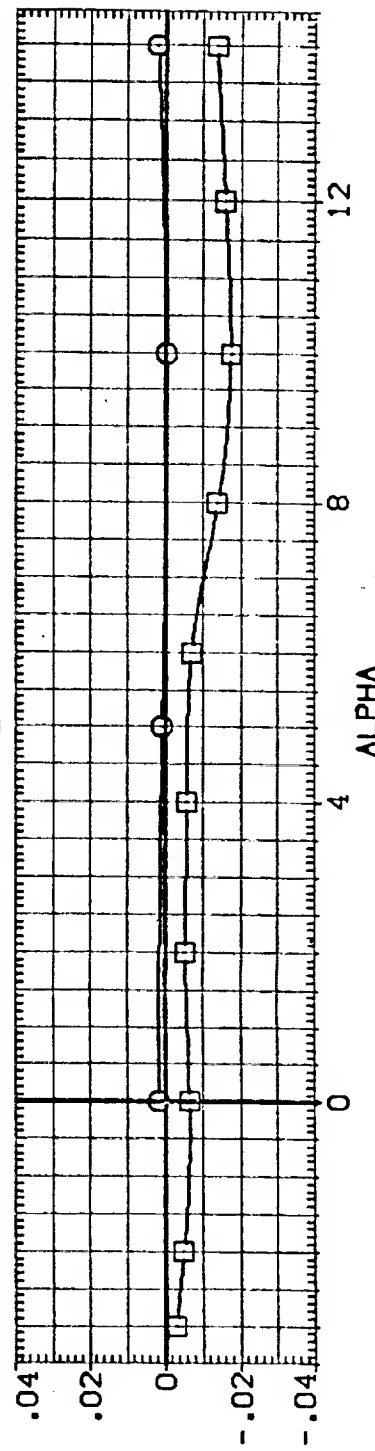
REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



DCN




DCNV



DCNT

FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: ARC 66-709 DASH 11A-(RS V8)+STRUT
 (VER012) DATA NOT AVAILABLE
 (VER014) DATA NOT AVAILABLE
 (VER015)

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: .8053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

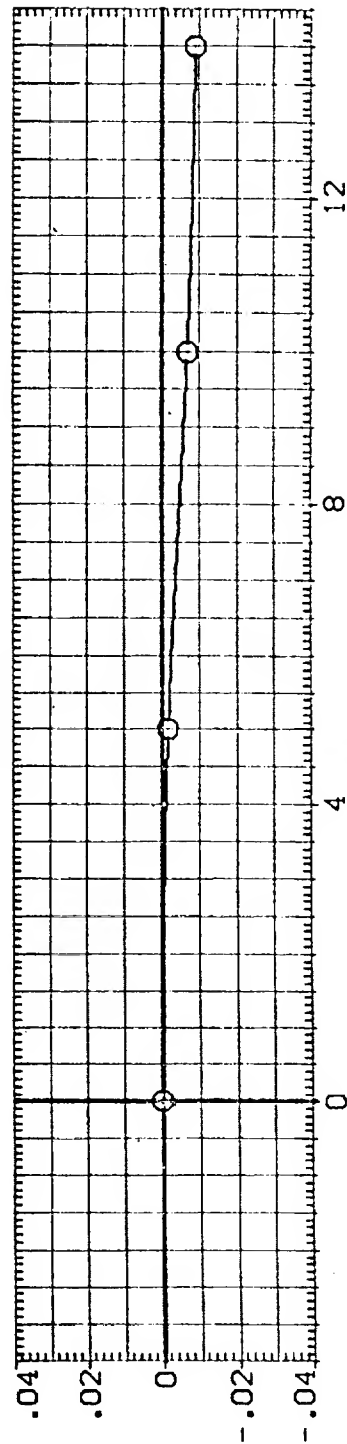
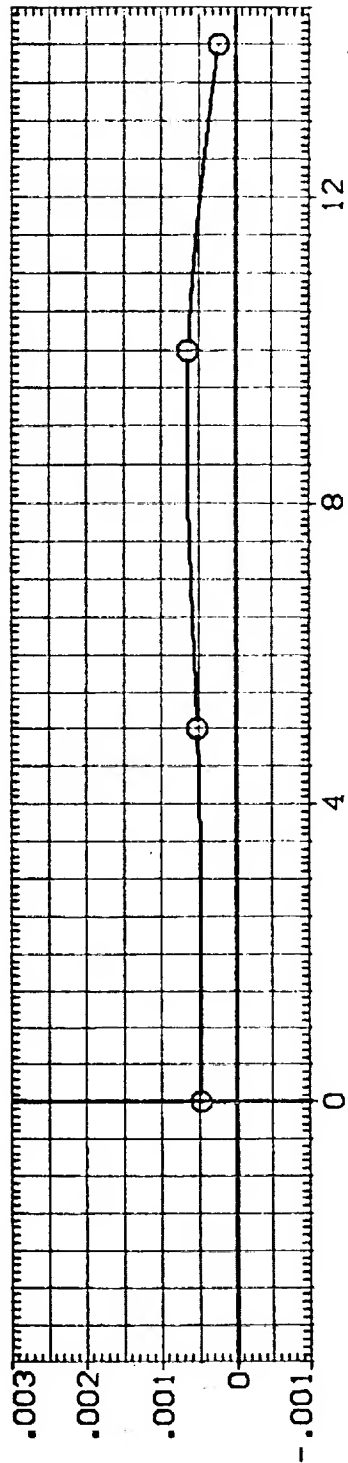
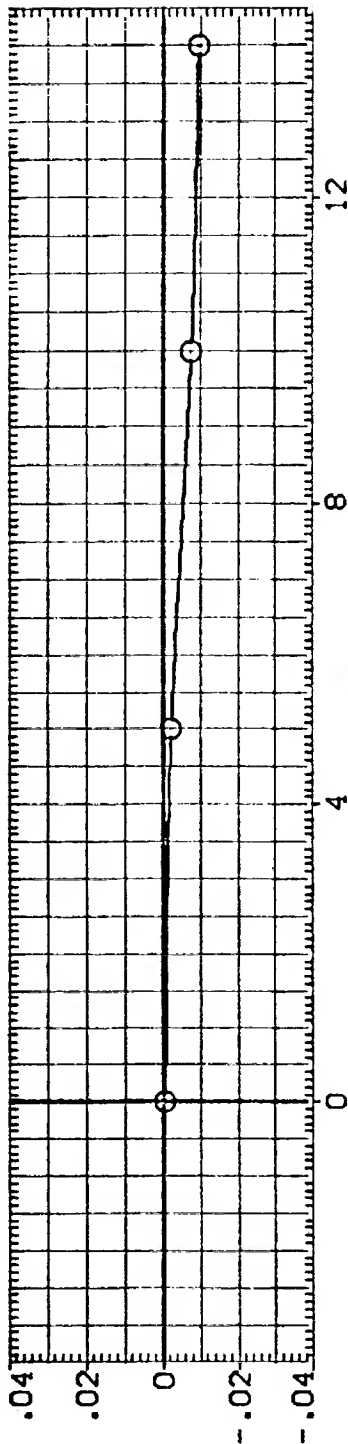


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 DAS9 DAI1A-(R5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 DAS9 DAI1A-(R5 V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

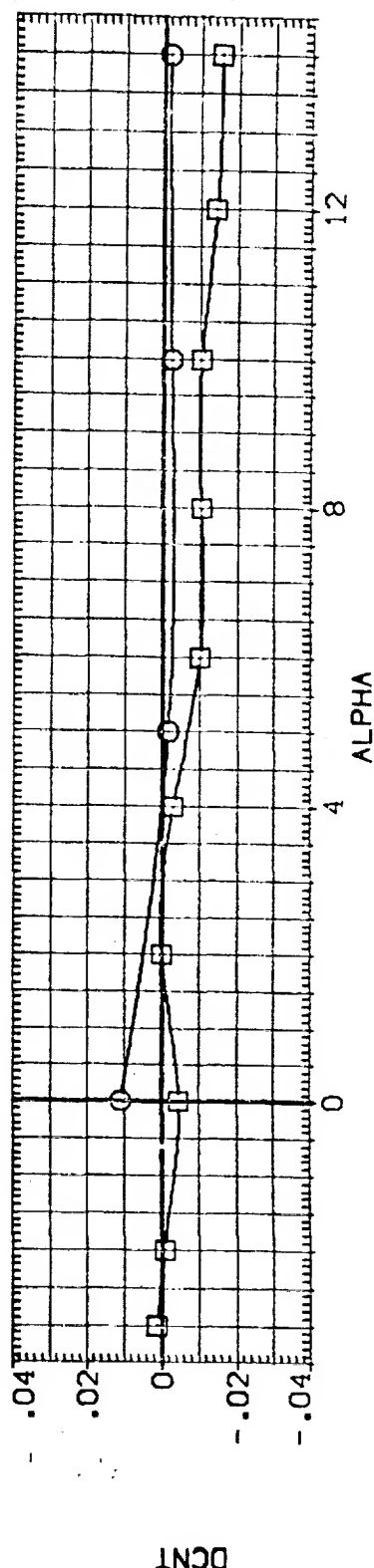
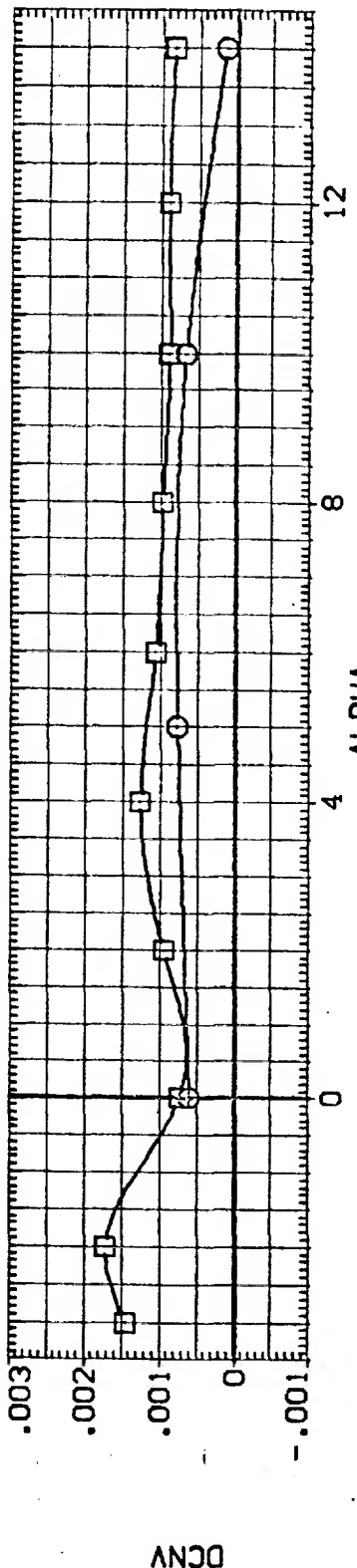
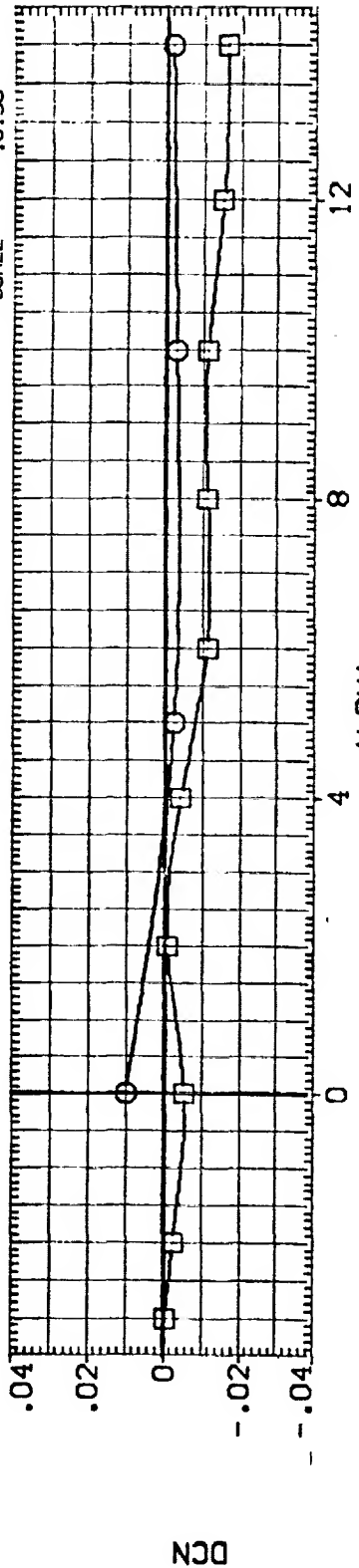


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(D)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 OAS9 0A11A-(R5 V8)*STRUT
 (VER014) DATA NOT AVAILABLE
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

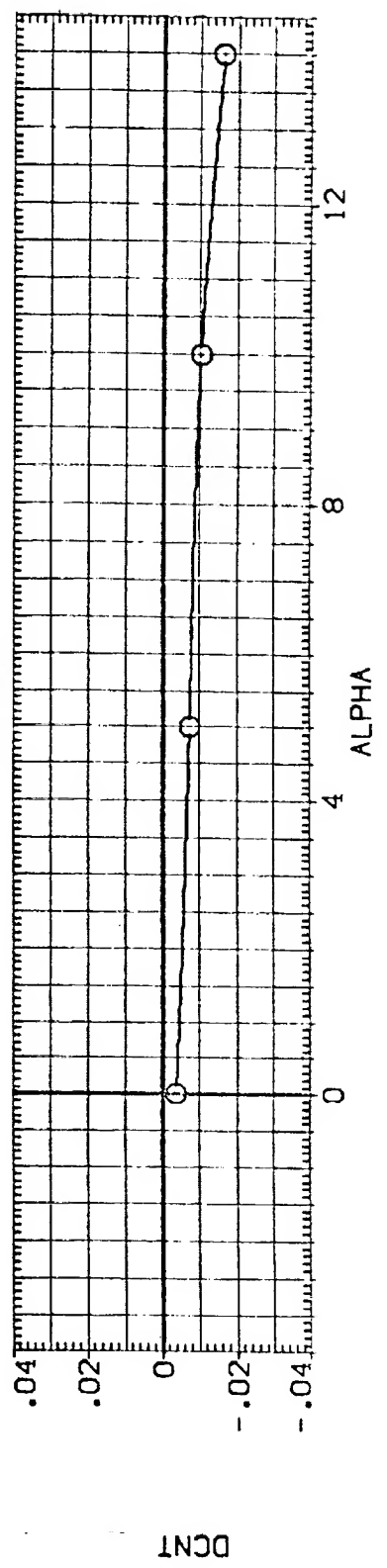
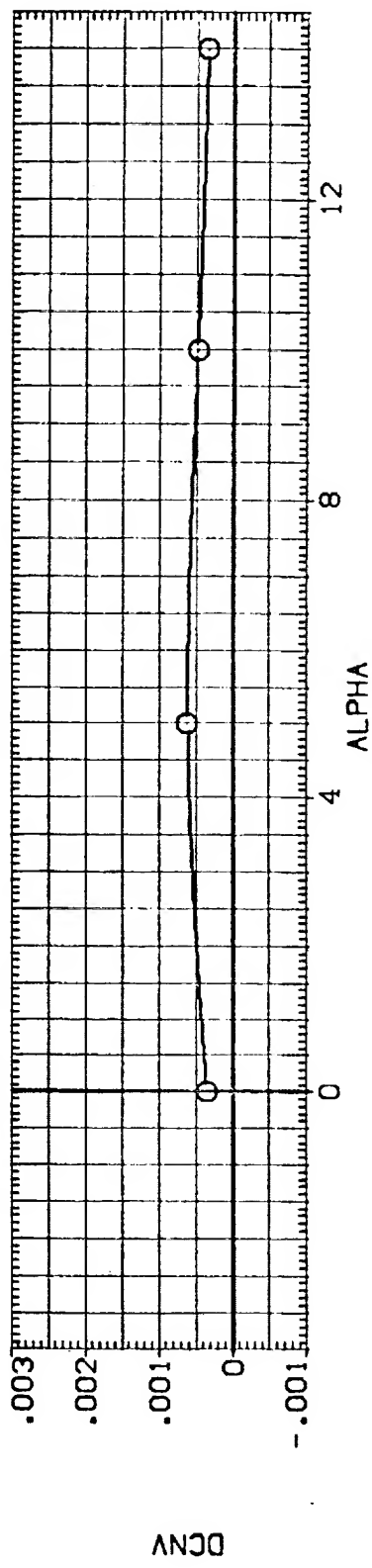
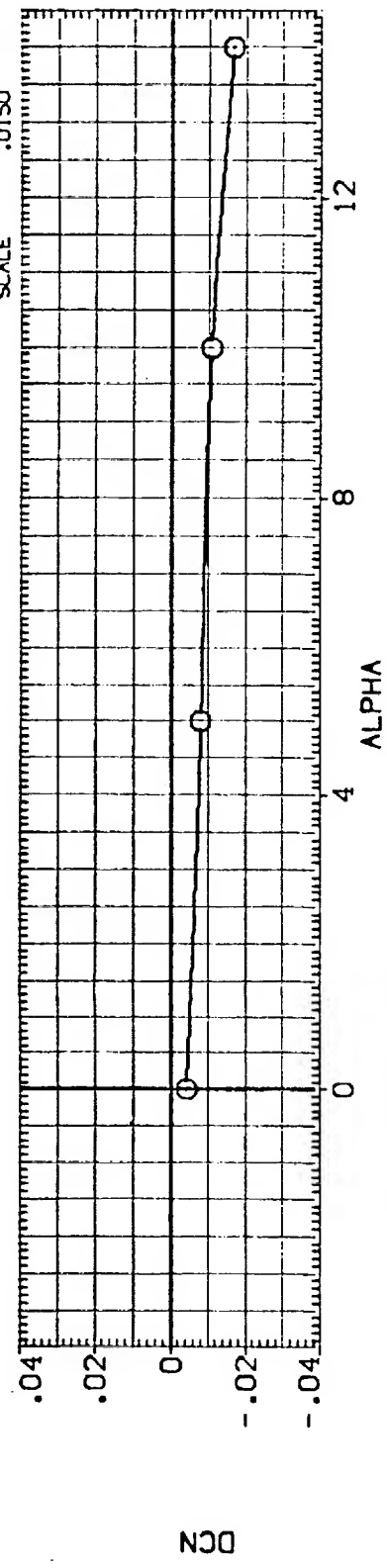


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5835 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1210 FT.
					XMRP 12.6235 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

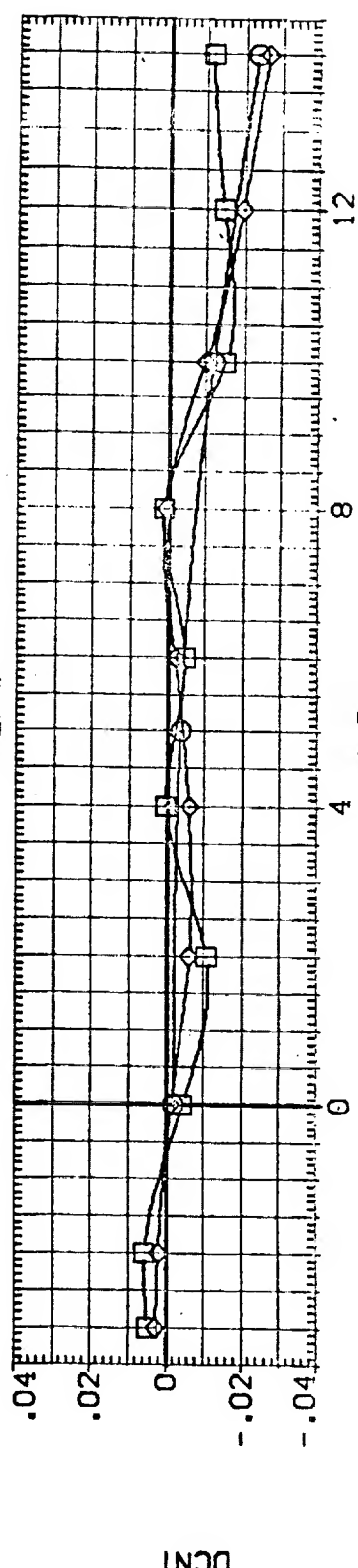
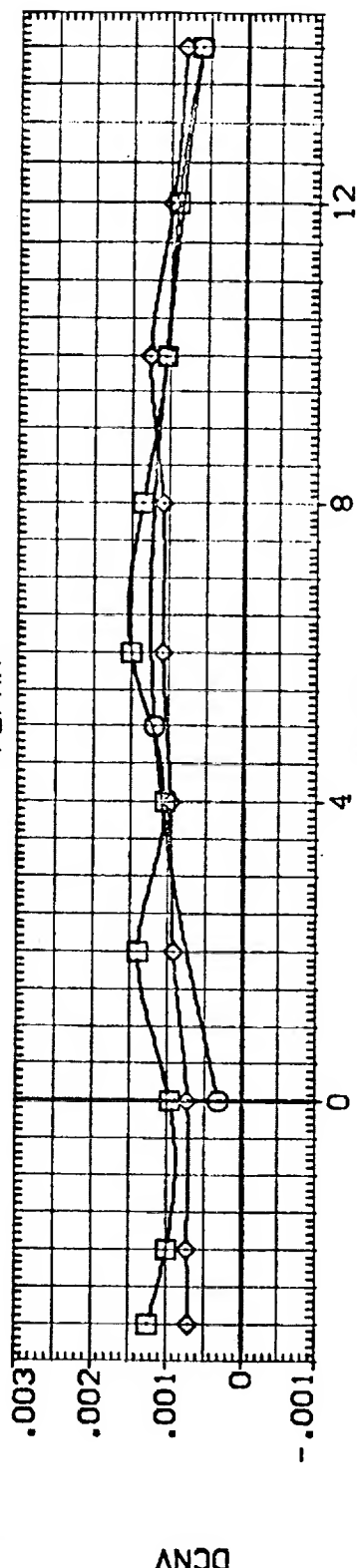
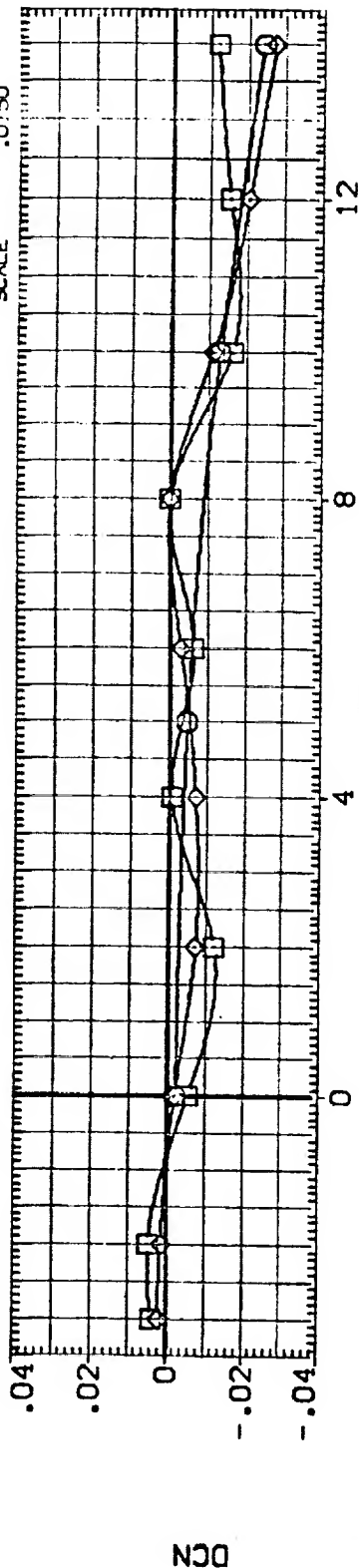


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL (VER012) (VER014) (VER015)

CONFIGURATION DESCRIPTION
ARC 66-709 0A11A-(RS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA .000 .000 .000

ELEVON .000 .000 .000

BOFLAP -11.700 16.300 .000

REFERENCE INFORMATION
SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

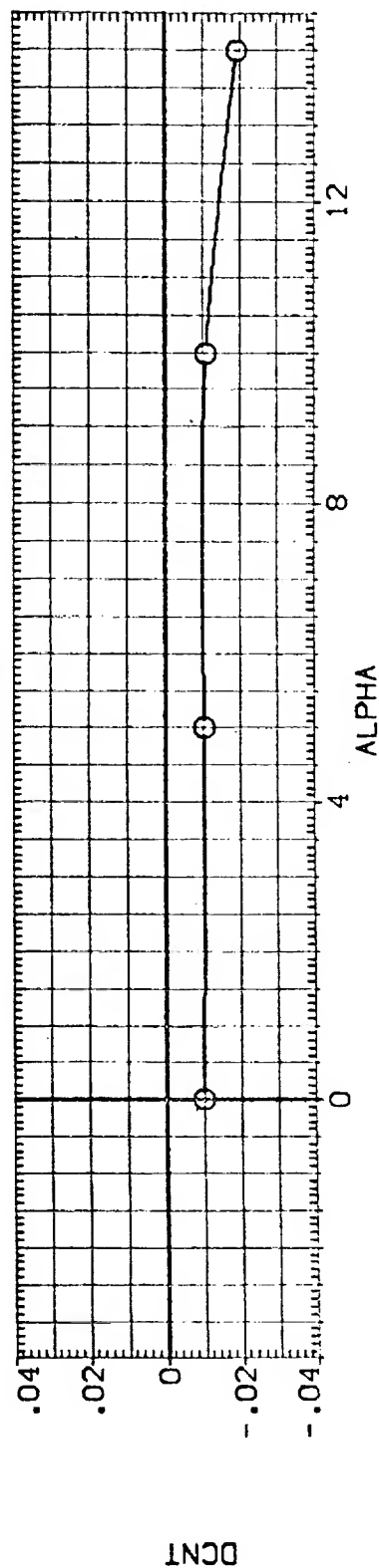
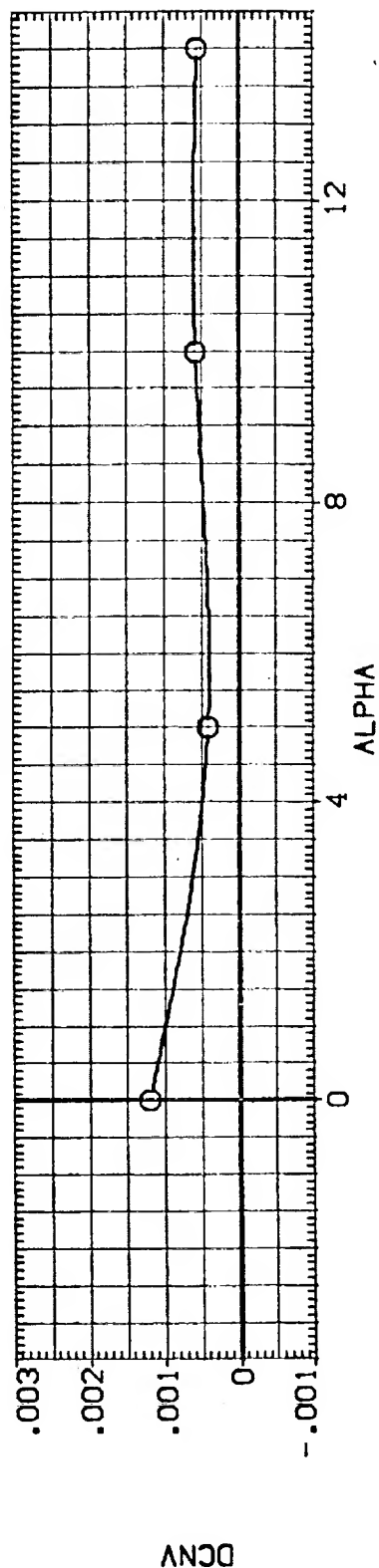
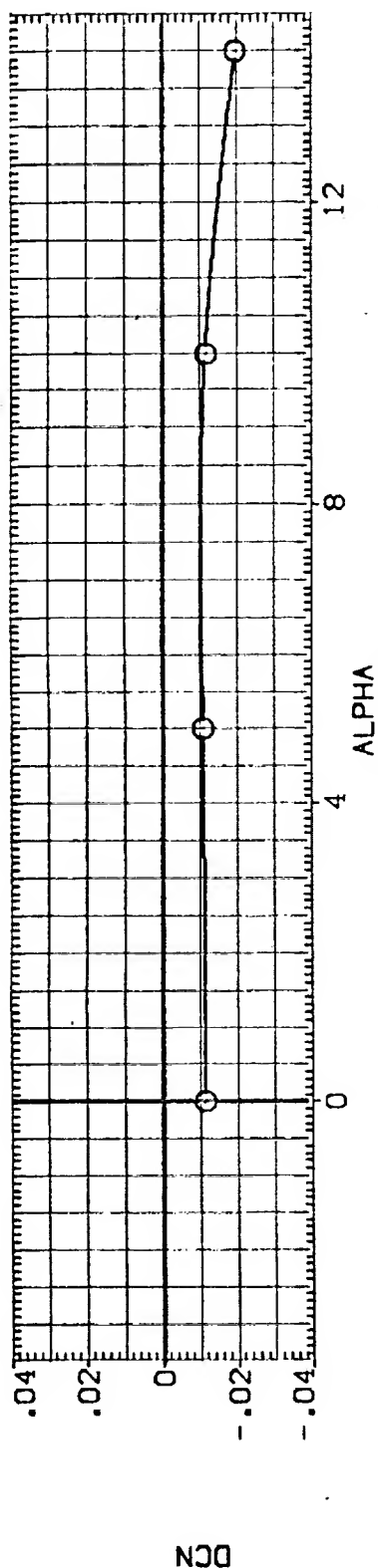


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .3750 IN.
					.0150

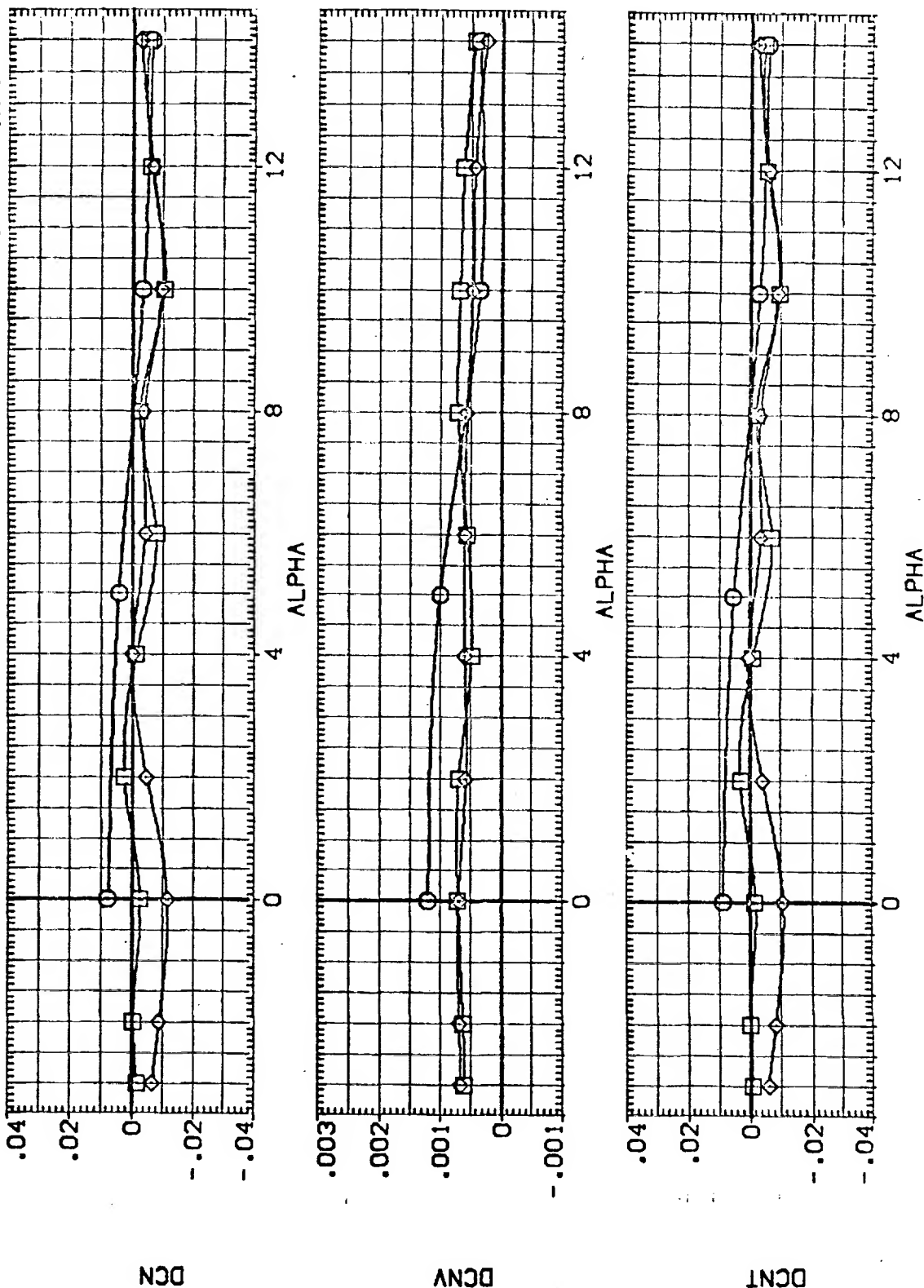


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(M)MACH = 1.20

DATA SET SYMBOL: (VERO12) (VERO14) (VERO15)

CONFIGURATION DESCRIPTION: ARC 66-709 DASS DA11A-(RS V81)+STRUT
ARC 66-709 DASS DA11A-(RS V81)+STRUT
DATA NOT AVAILABLE

BETA: .000 .000 .000

ELEVON: .000 .000 .000

BOFLAP: -11.700 16.300 .000

REFERENCE INFORMATION: SREF .6053 50 FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

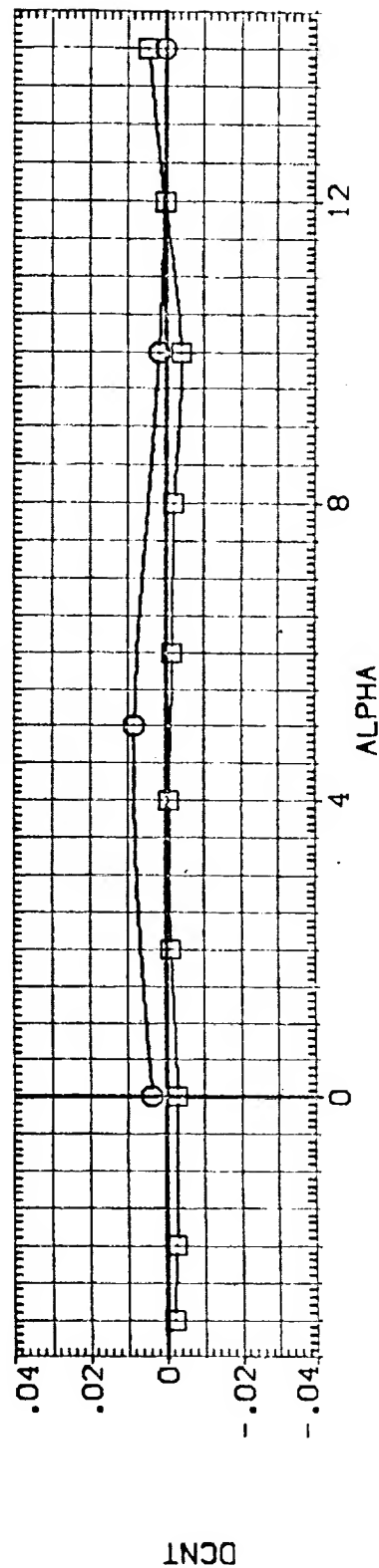
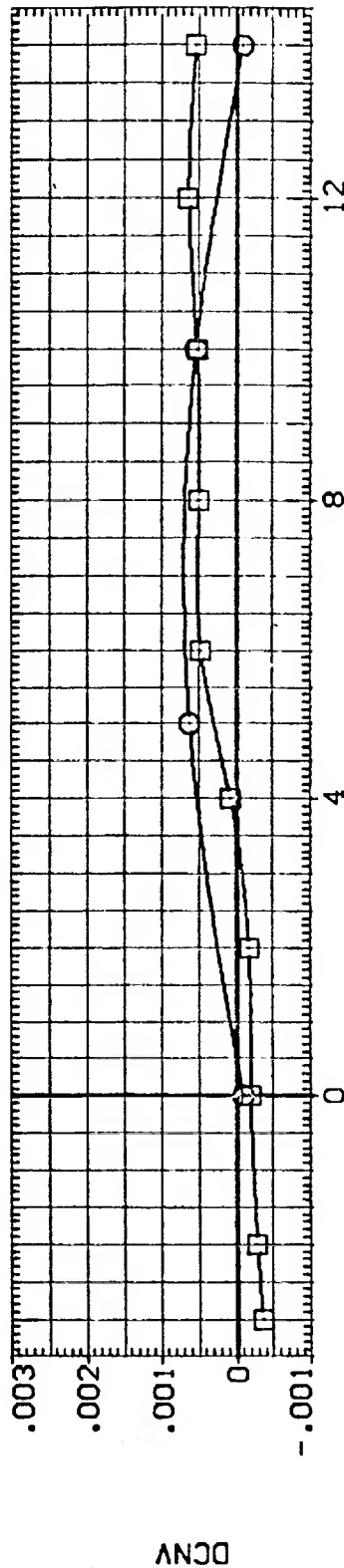
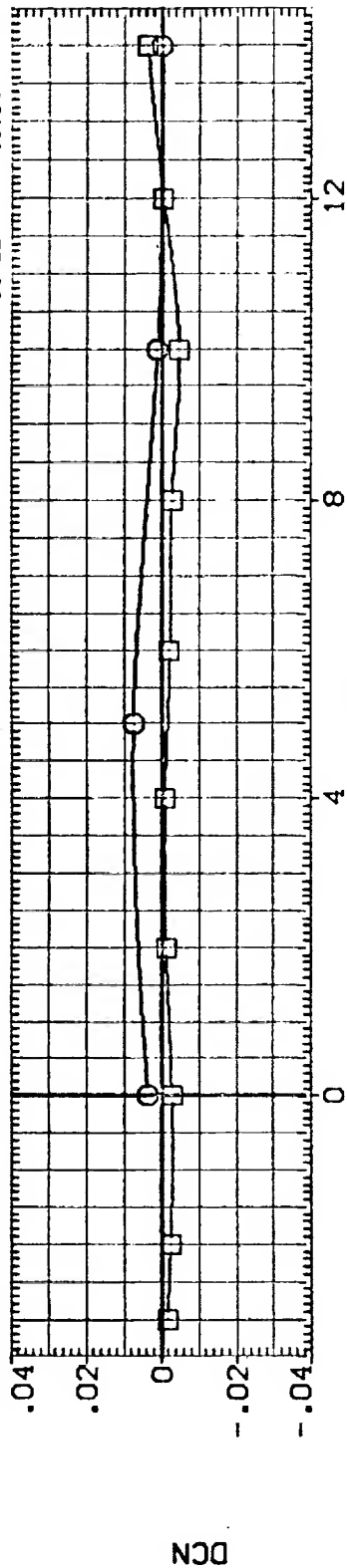


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V81)-STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

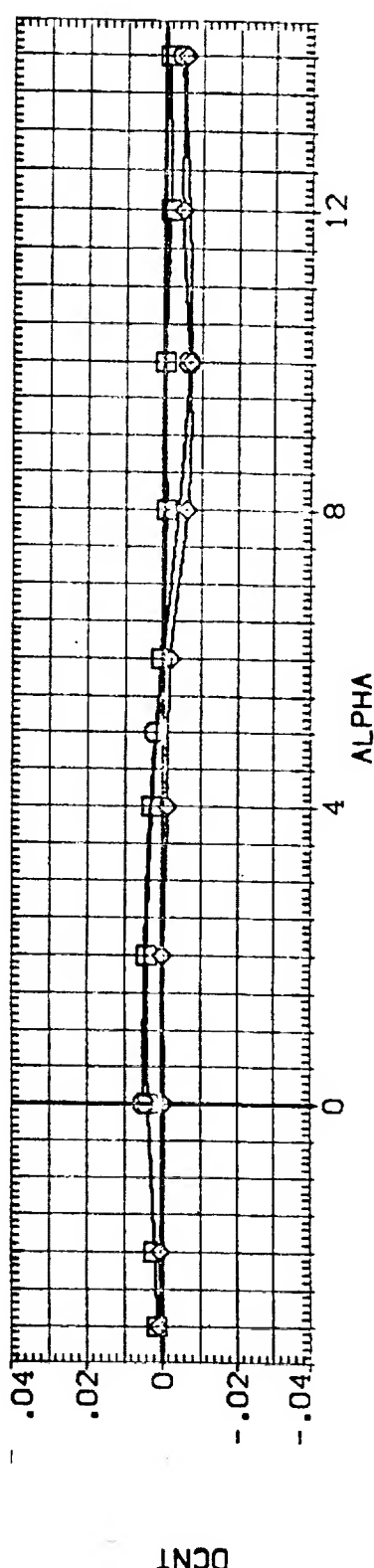
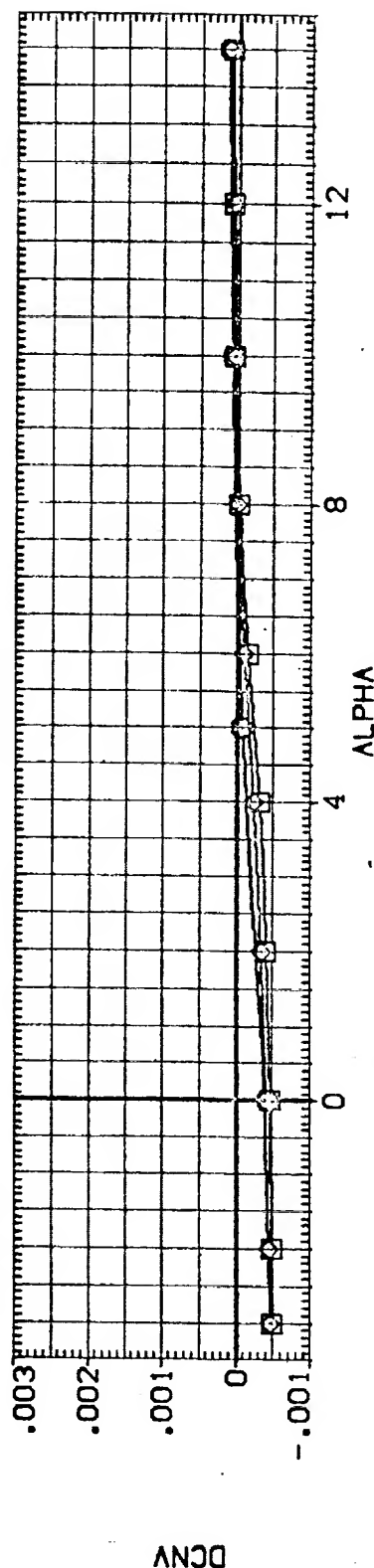
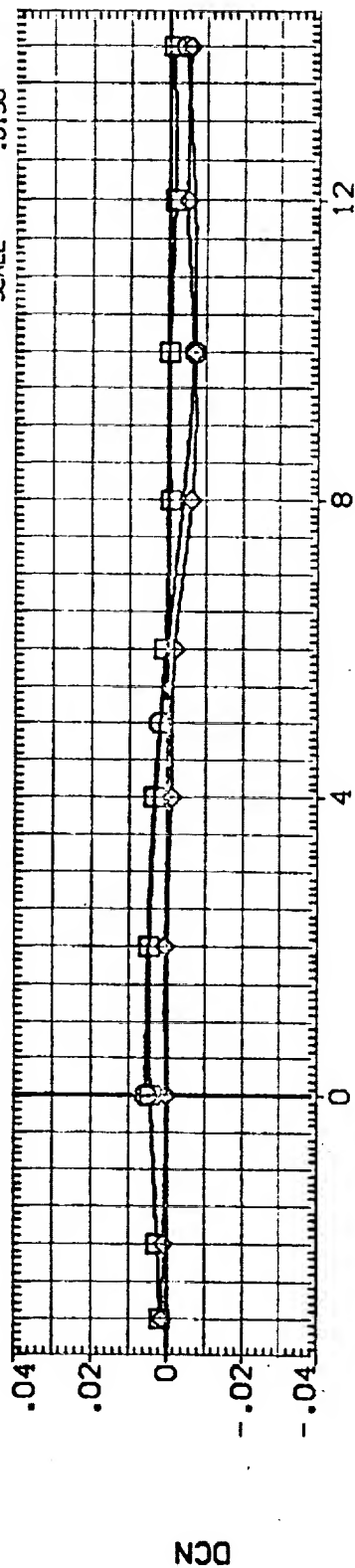


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 DASS DA11A-(RS VB1)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 DASS DA11A-(RS VB1)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 DASS DA11A-(RS VB1)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

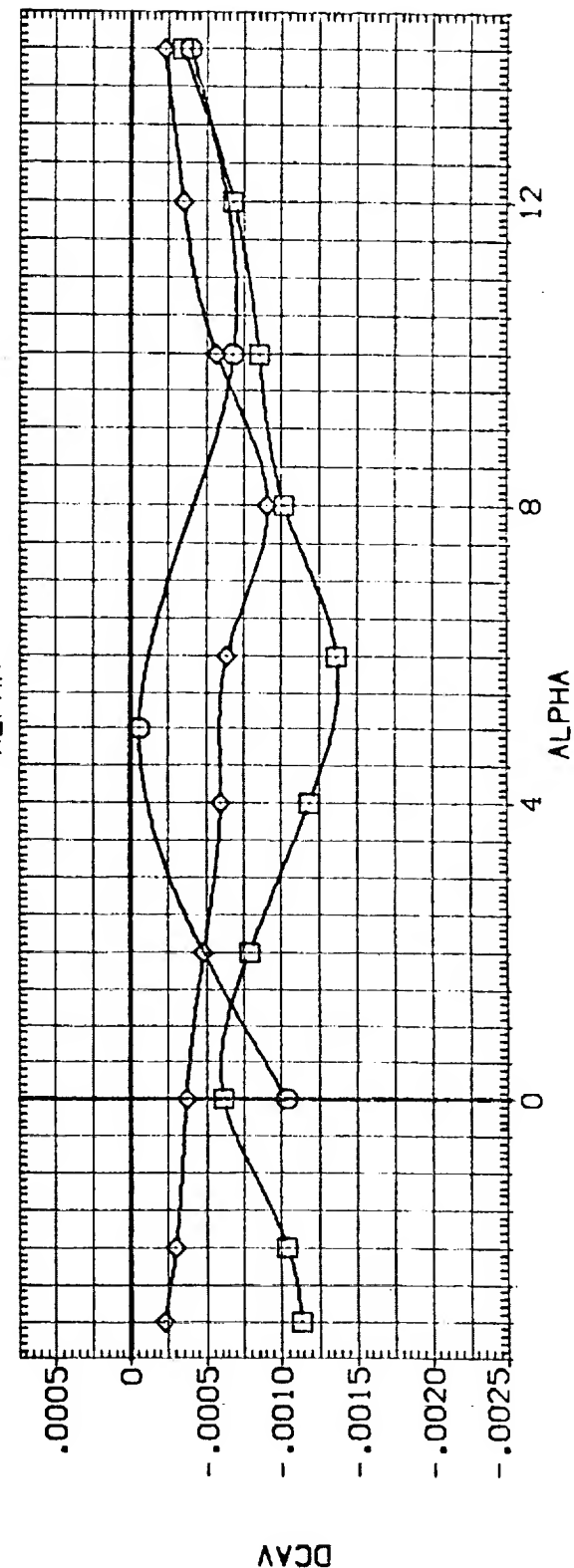
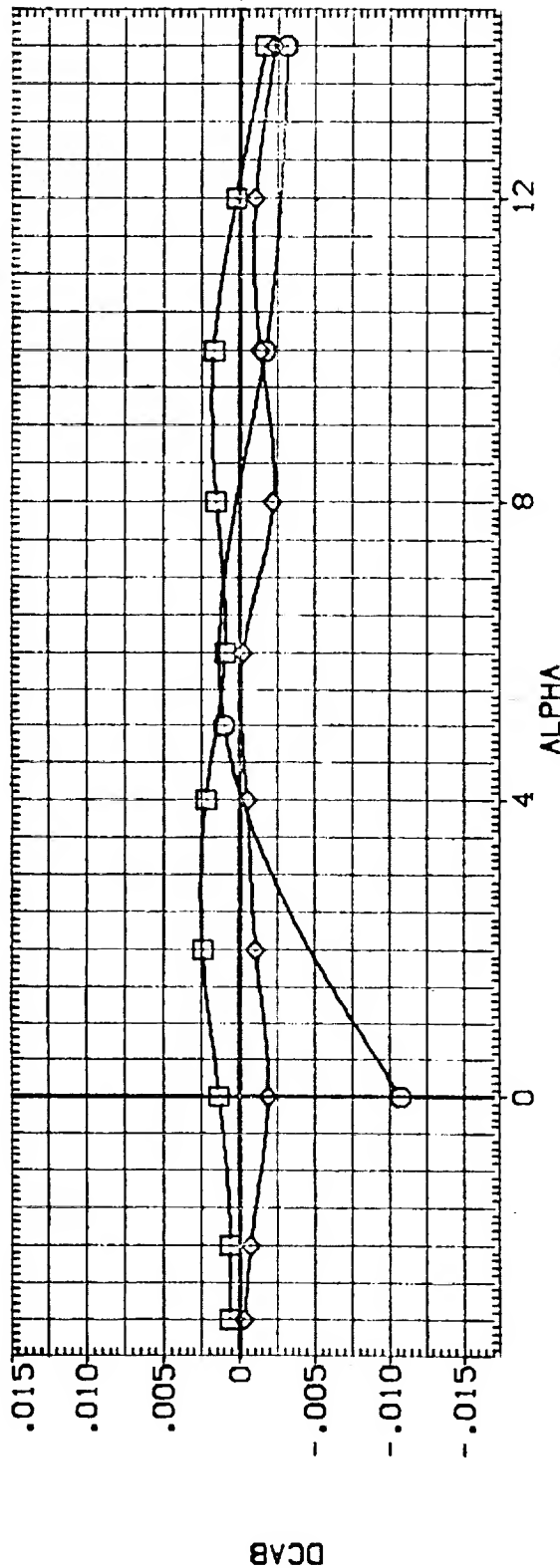


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VERO12) ARC 66-709 CAS9 0A11A-(RS V8)+STRUT
 (VERO14) ARC 66-709 CAS9 0A11A-(RS V8)+STRUT
 (VERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

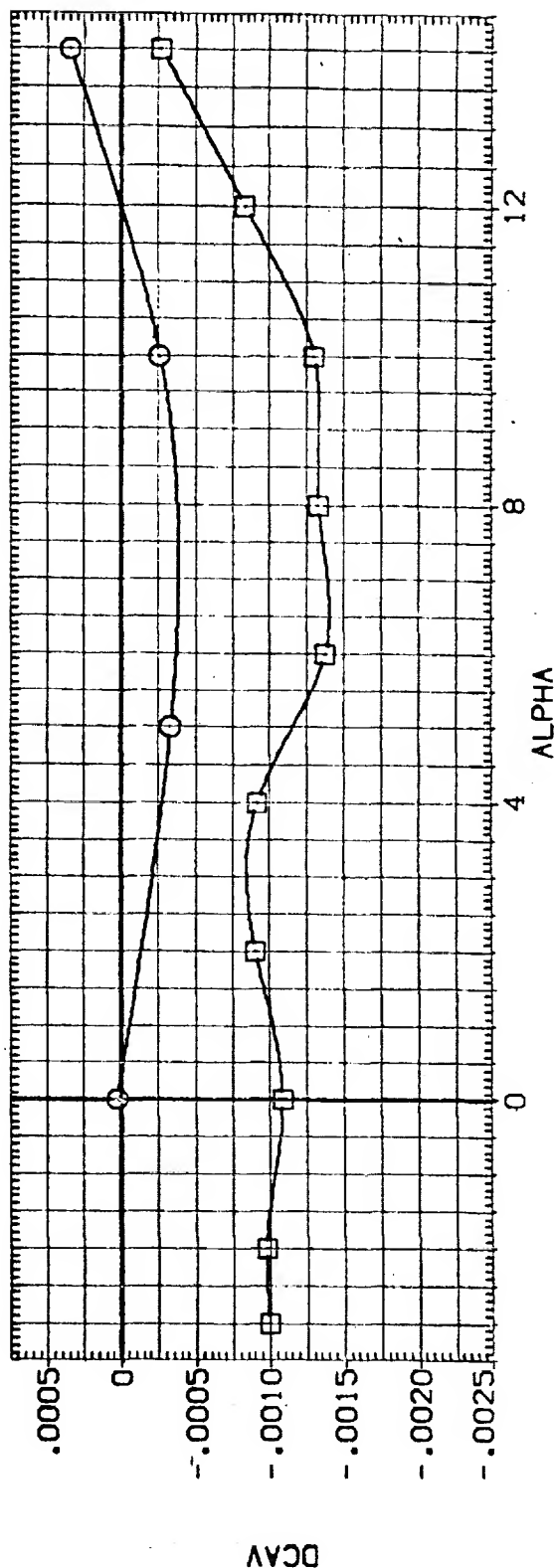
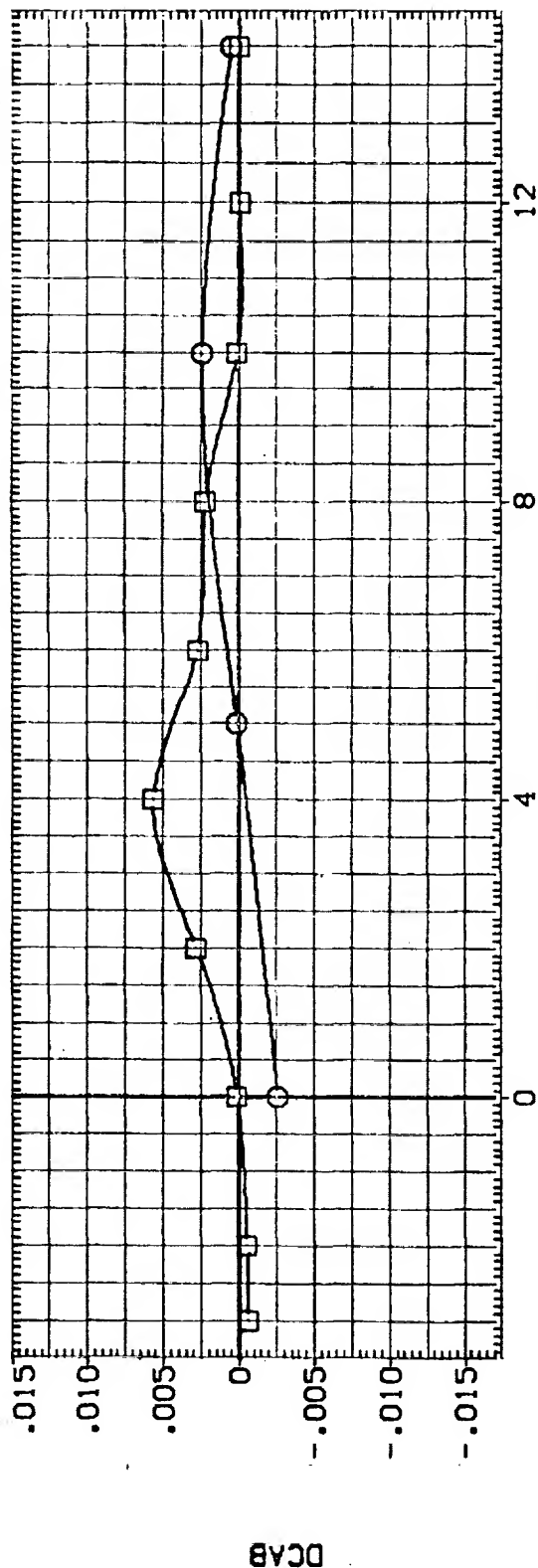


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 DASS 0A11A-(RS V8)+STRUT
 (VER014) DATA NOT AVAILABLE
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

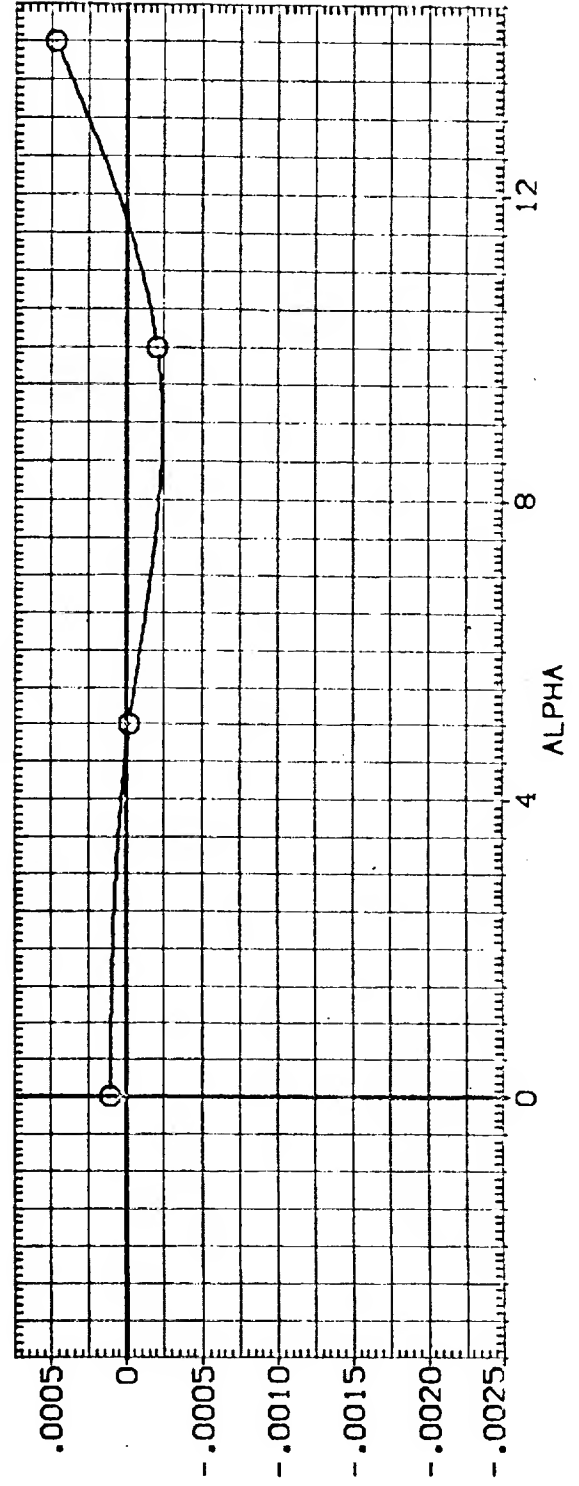
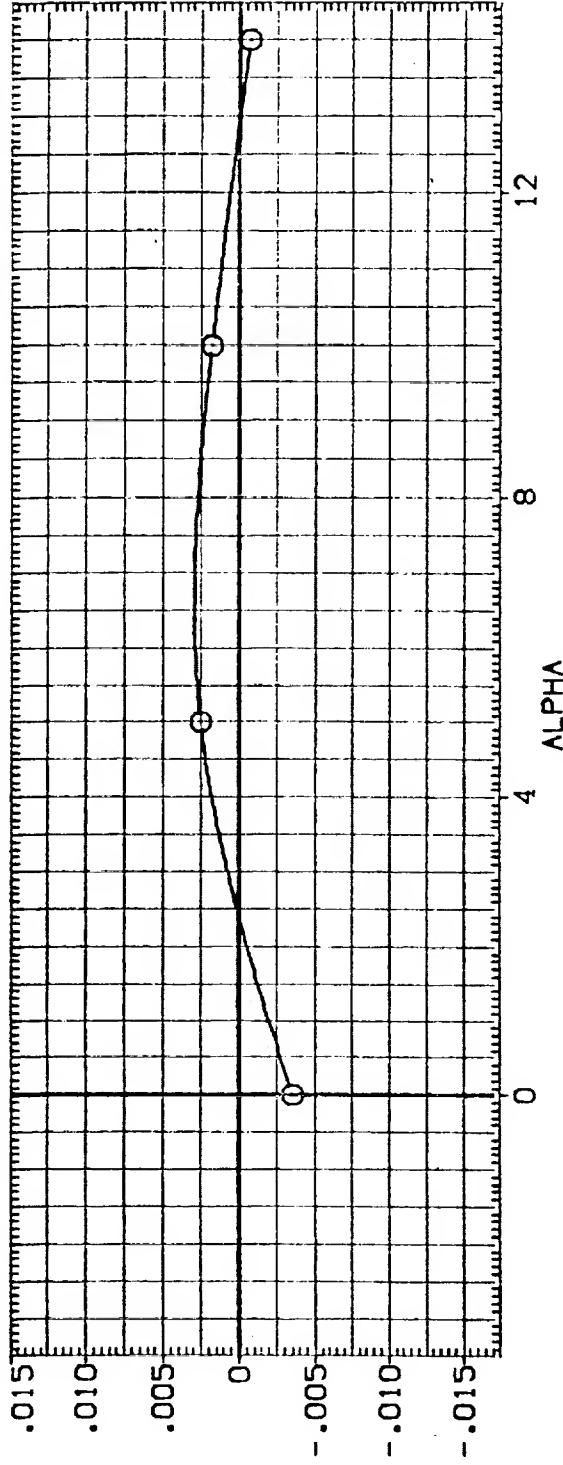


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(C)MACH = .75

DATA SET SYMBOL. CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 BASS DA11A-(RS V8)+STRUT
 (VER014) ARC 66-709 BASS DA11A-(RS V8)+STRUT
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

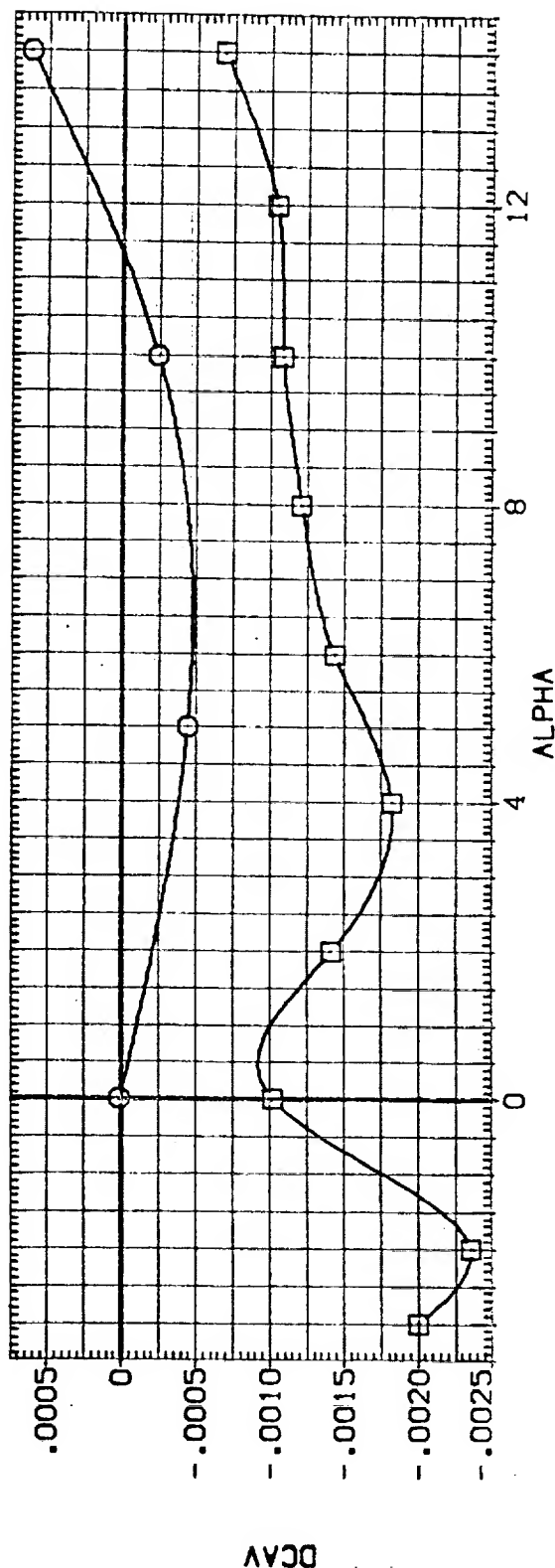
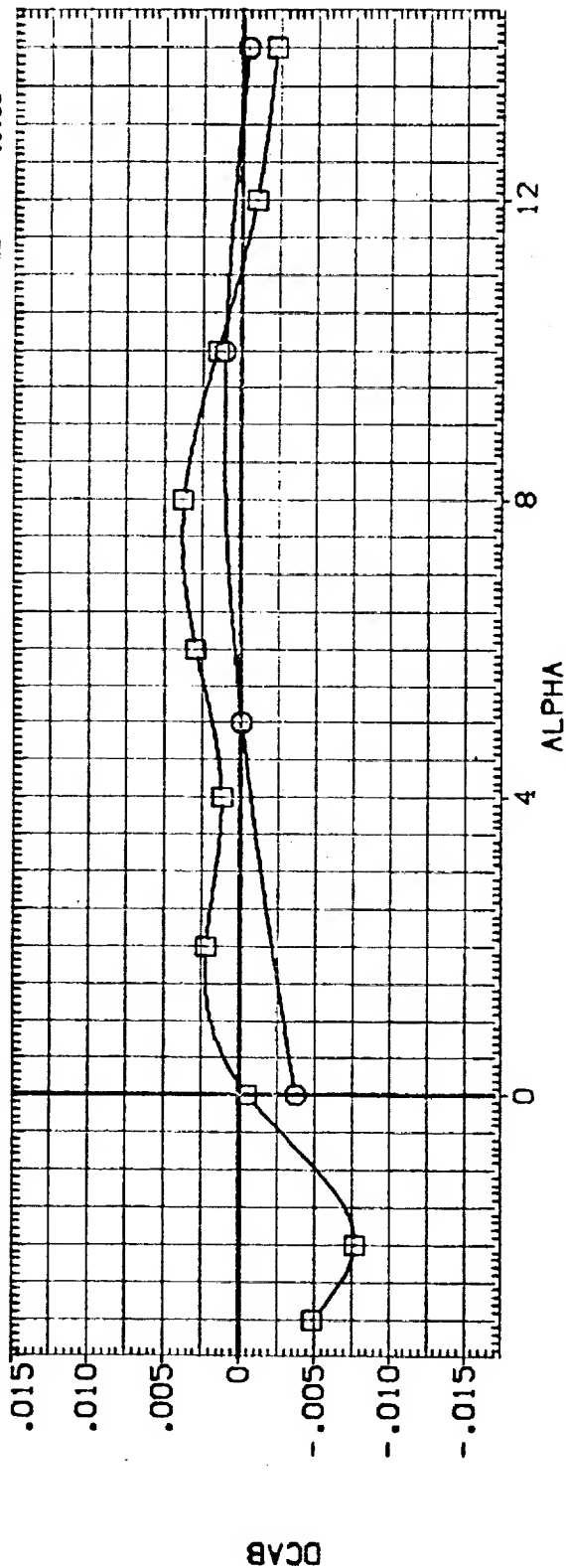


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(D)MACH = .80

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA		ELEVON		BOFLAP		REFERENCE INFORMATION	
(VER012)	□	ARC 66-709 DASS DA11A-(RS V8)+STRUT		.000	.000	-11.700	SREF	.6053	50.FT.		
(VER014)	◇	DATA NOT AVAILABLE		.000	.000	16.300	LREF	.5935	FT.		
(VER015)		DATA NOT AVAILABLE		.000	.000	.000	BREF	1.1710	FT.		
							XMRP	12.6255	IN.		
							YMRP	.0000	IN.		
							ZMRP	-.3750	IN.		
							SCALE	.0150			

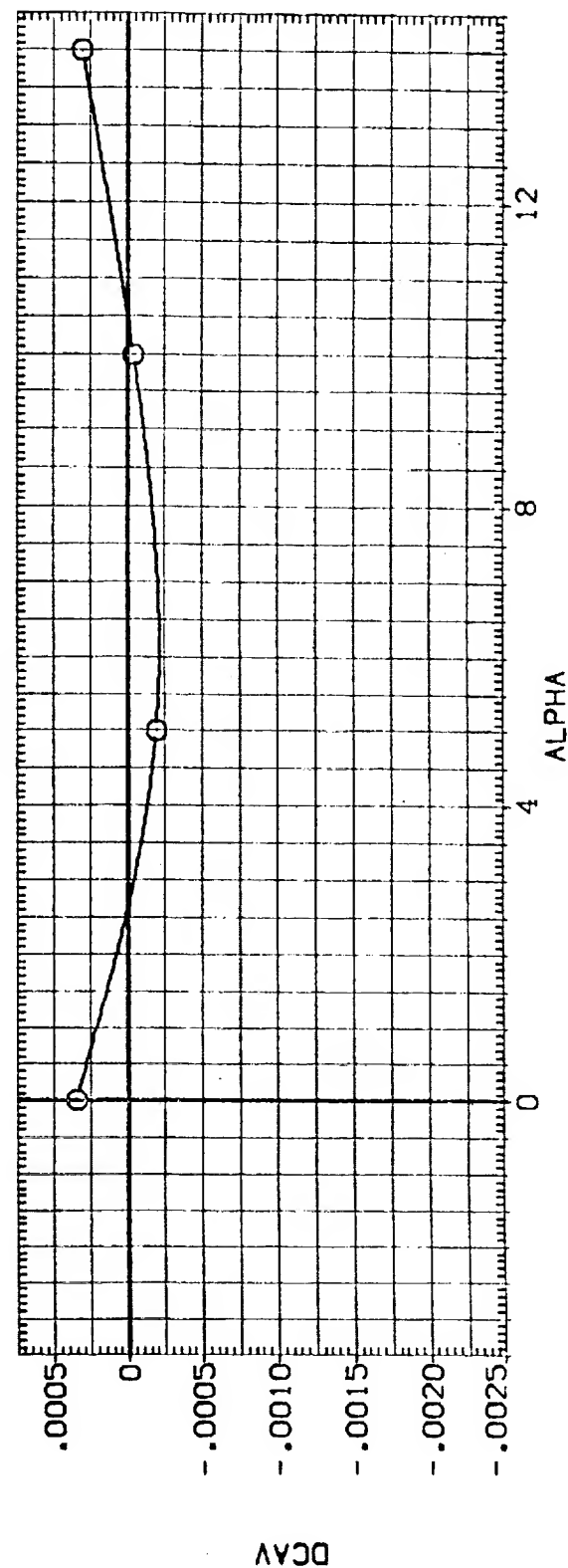
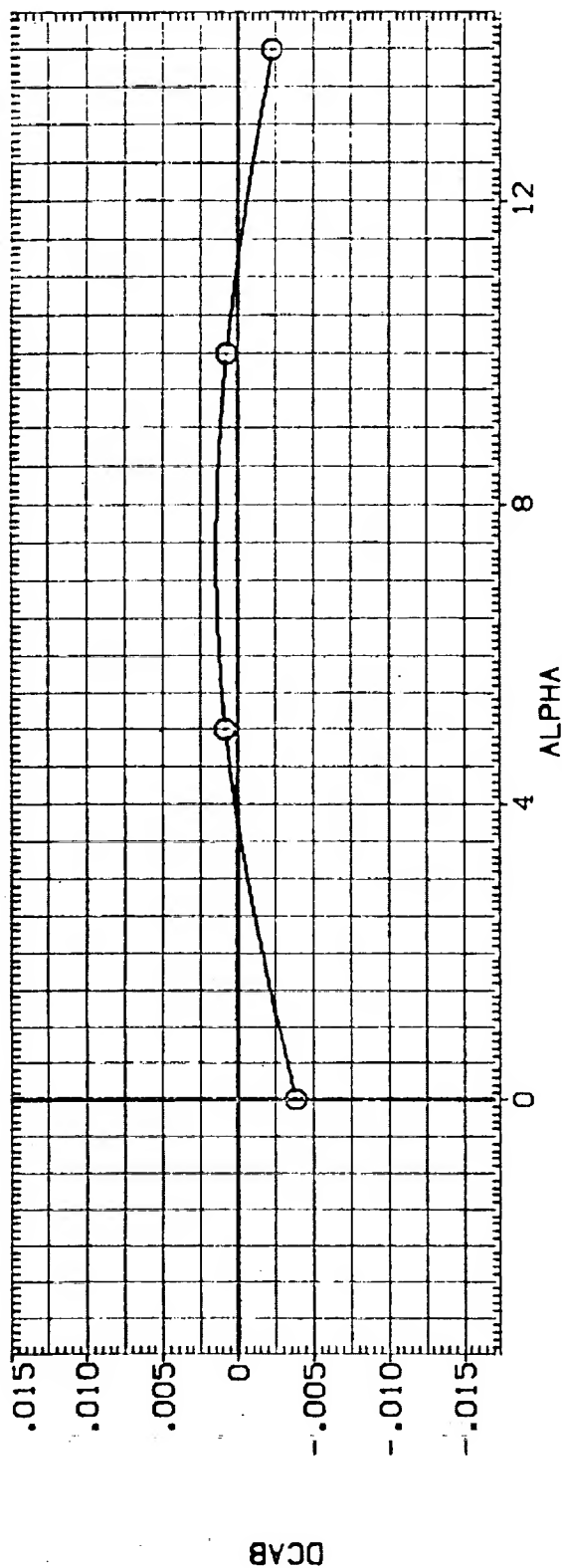


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(VERO14)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.
					.0150

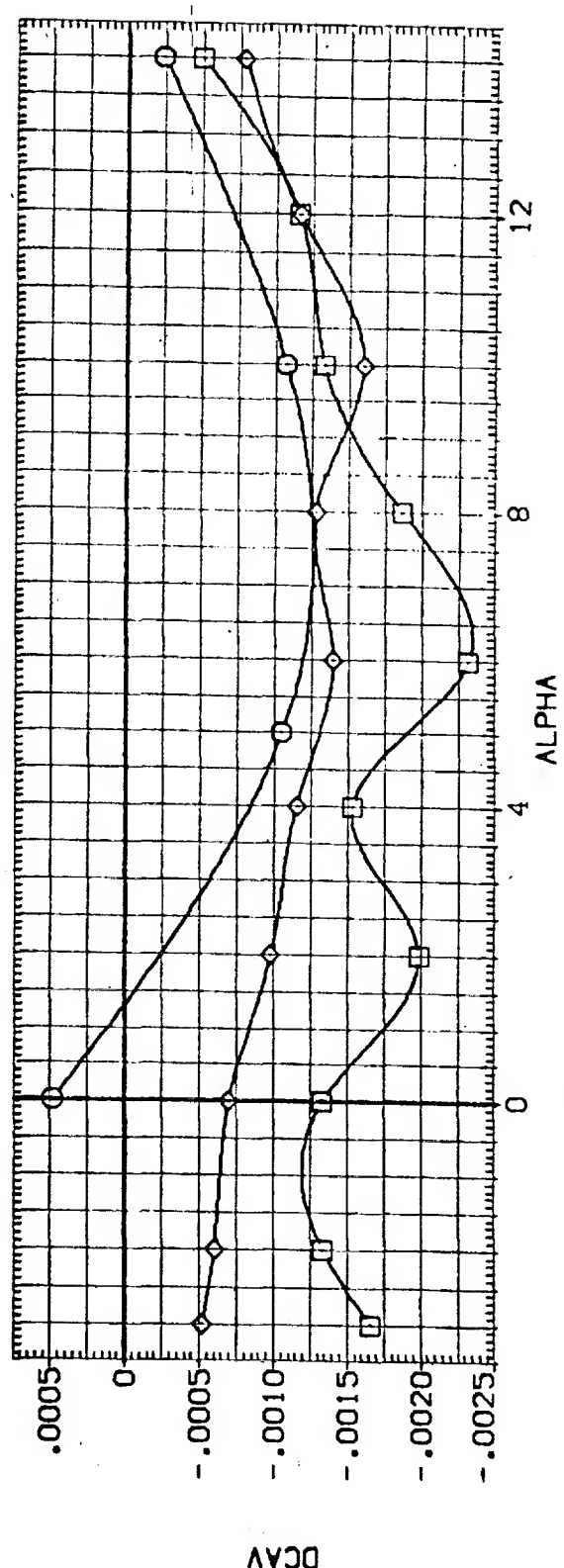
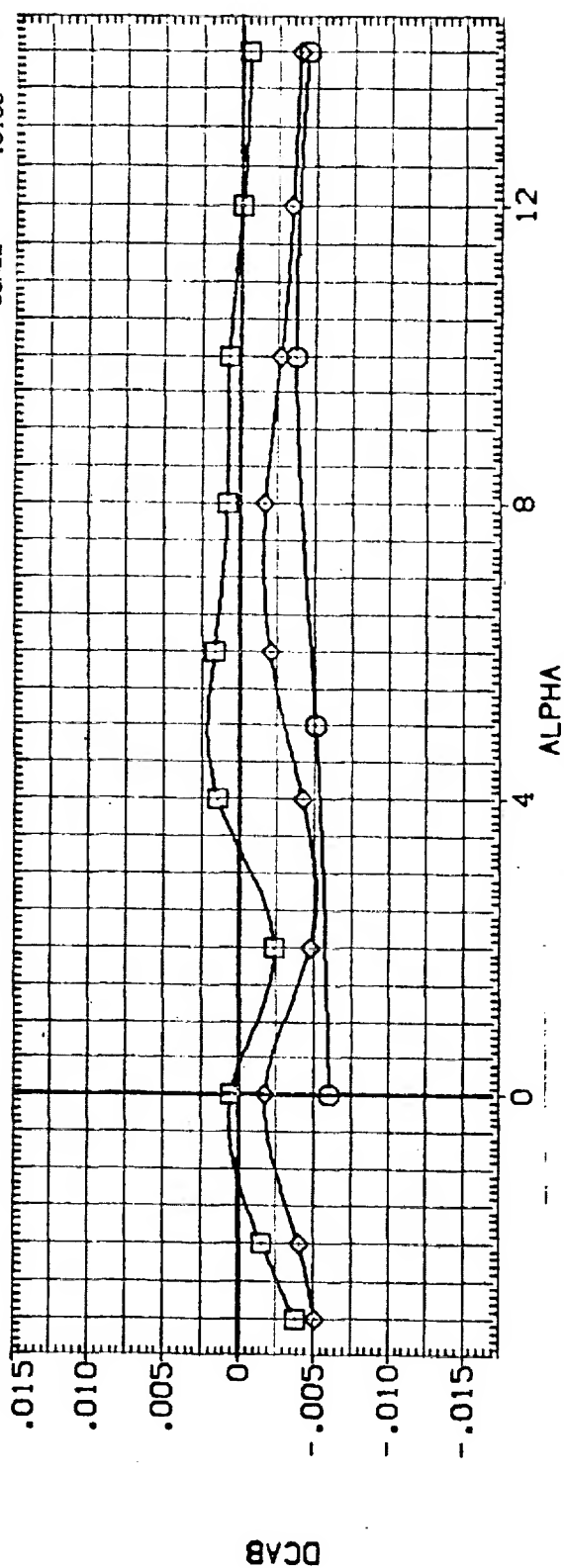


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VERO12) ARC 66-709 DASS DALLA-(RS V8)+STRUT
 (VERO14) DATA NOT AVAILABLE
 (VERO15) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

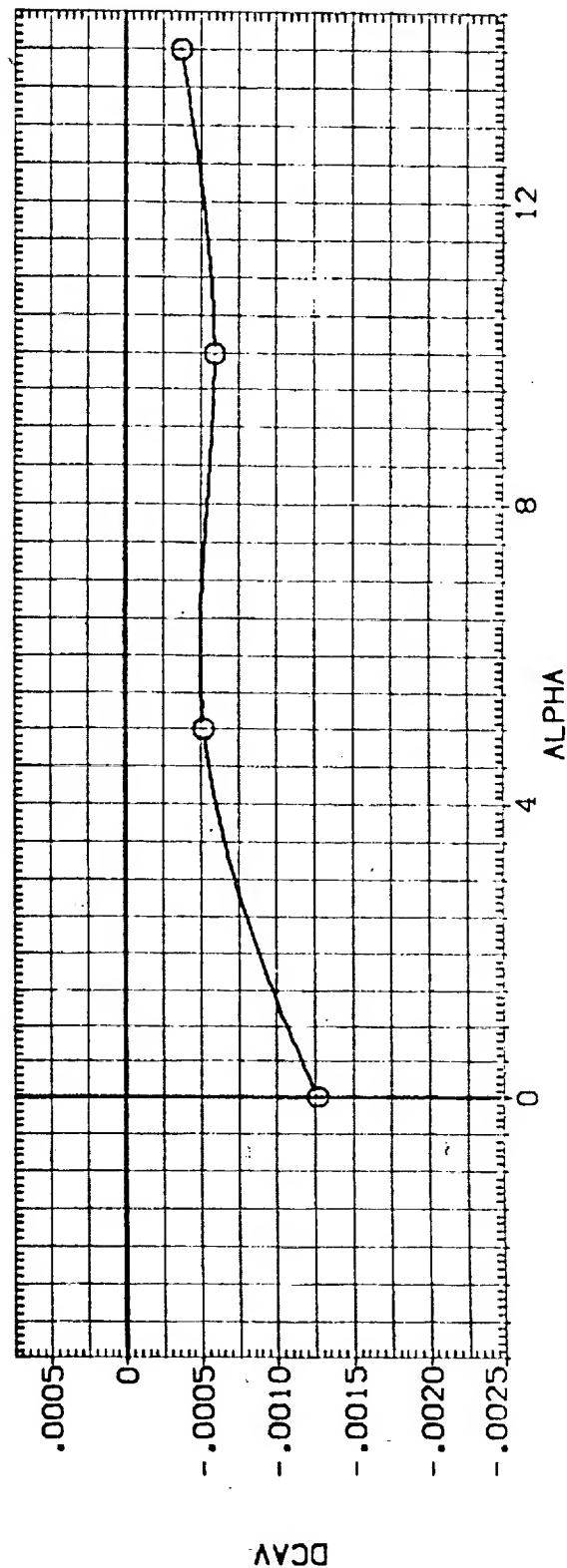
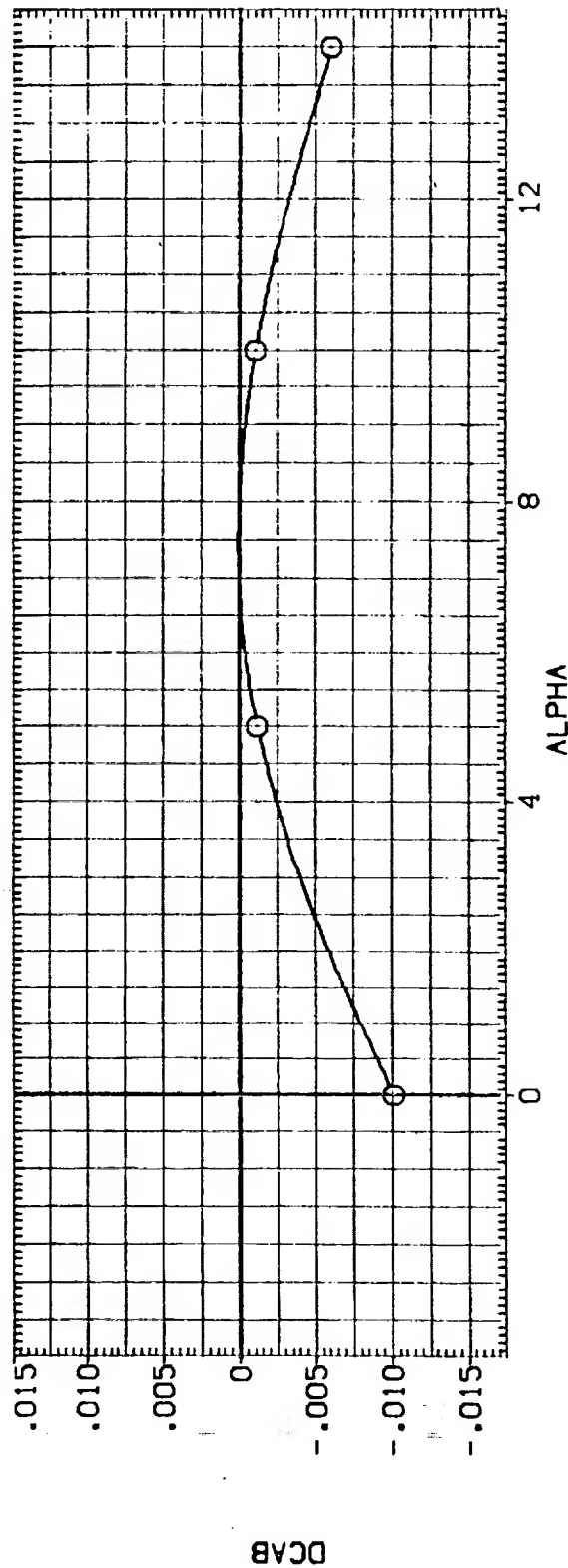


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(GJMACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(VER014)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

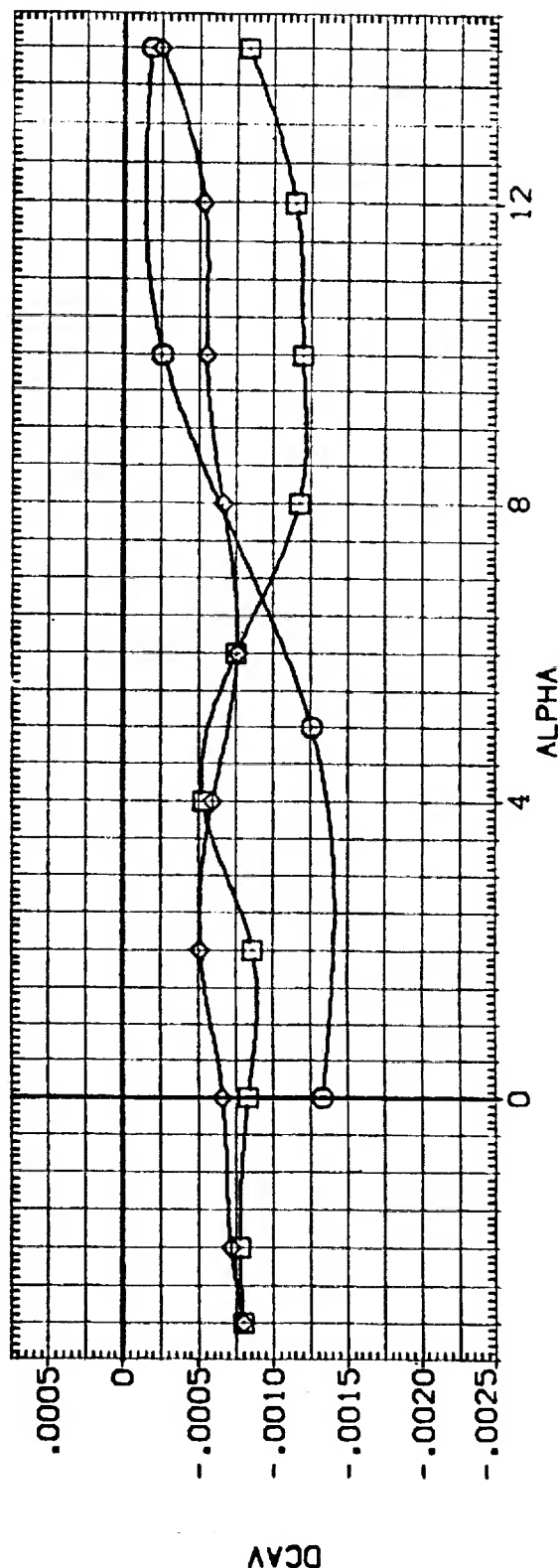
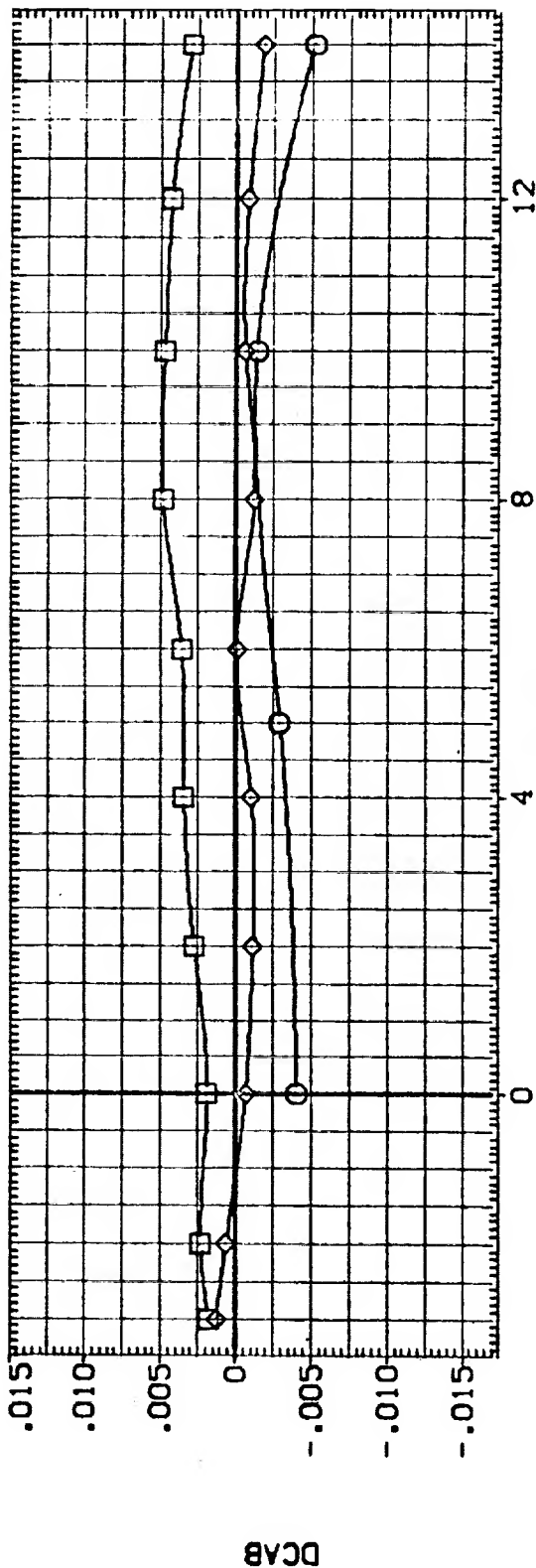


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(H)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[VER012]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
[VER014]	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
[VER015]	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

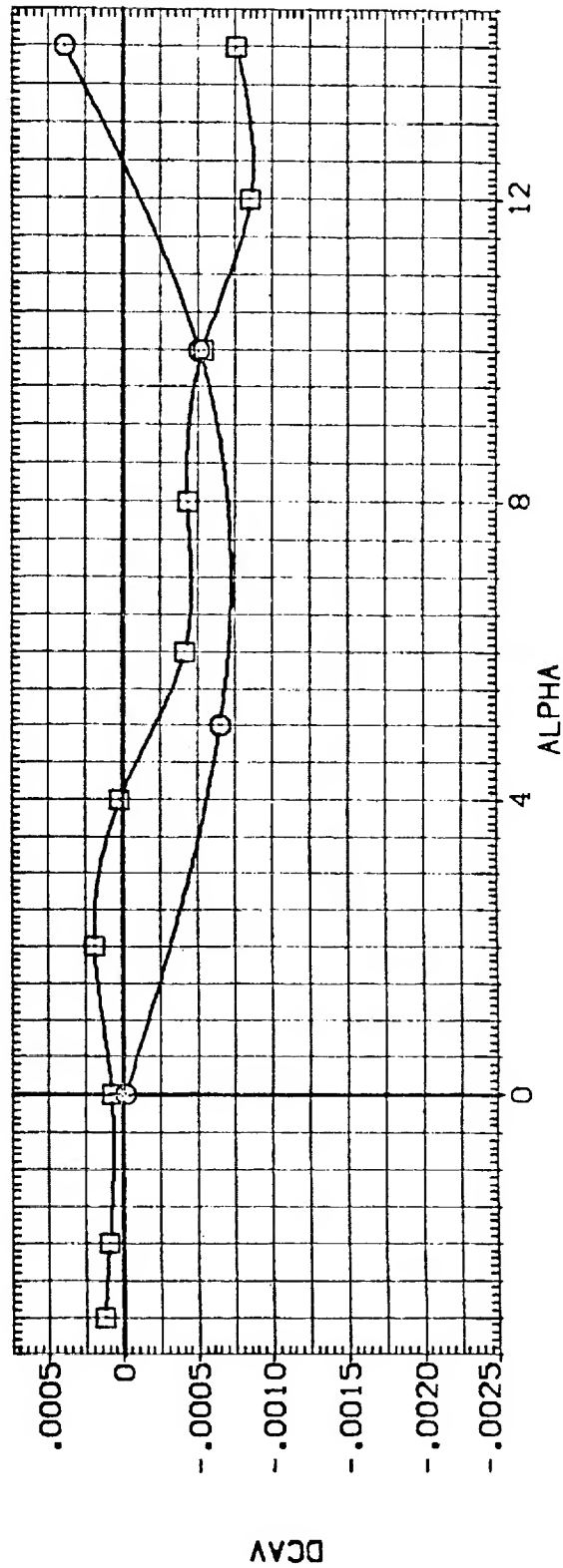
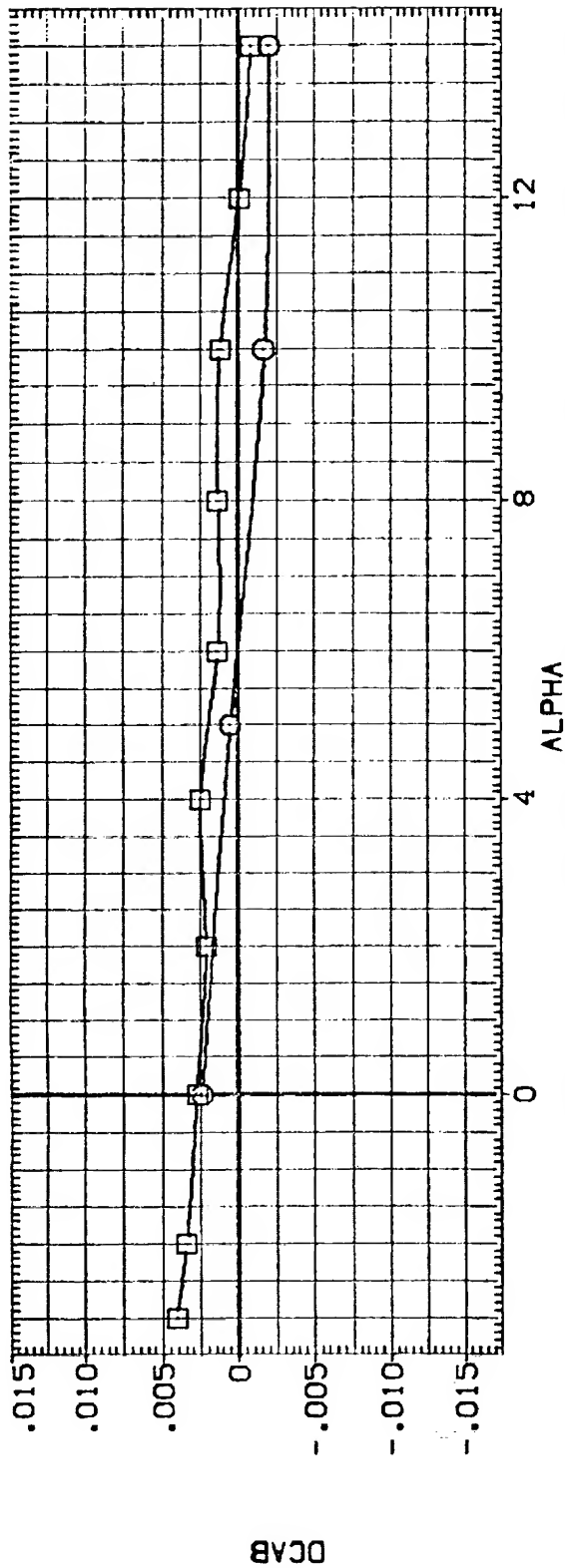


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BDFLAP	REFERENCE INFORMATION
(VERO12)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VERO14)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VERO15)	ARC 66-709 QAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

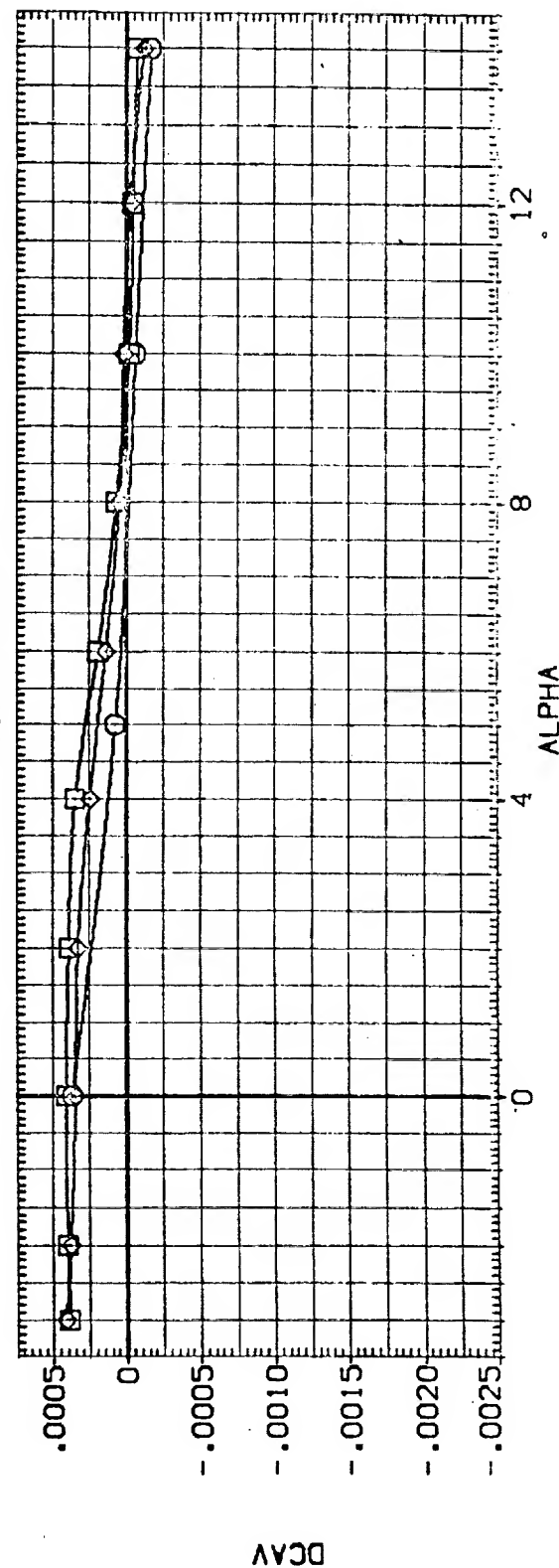
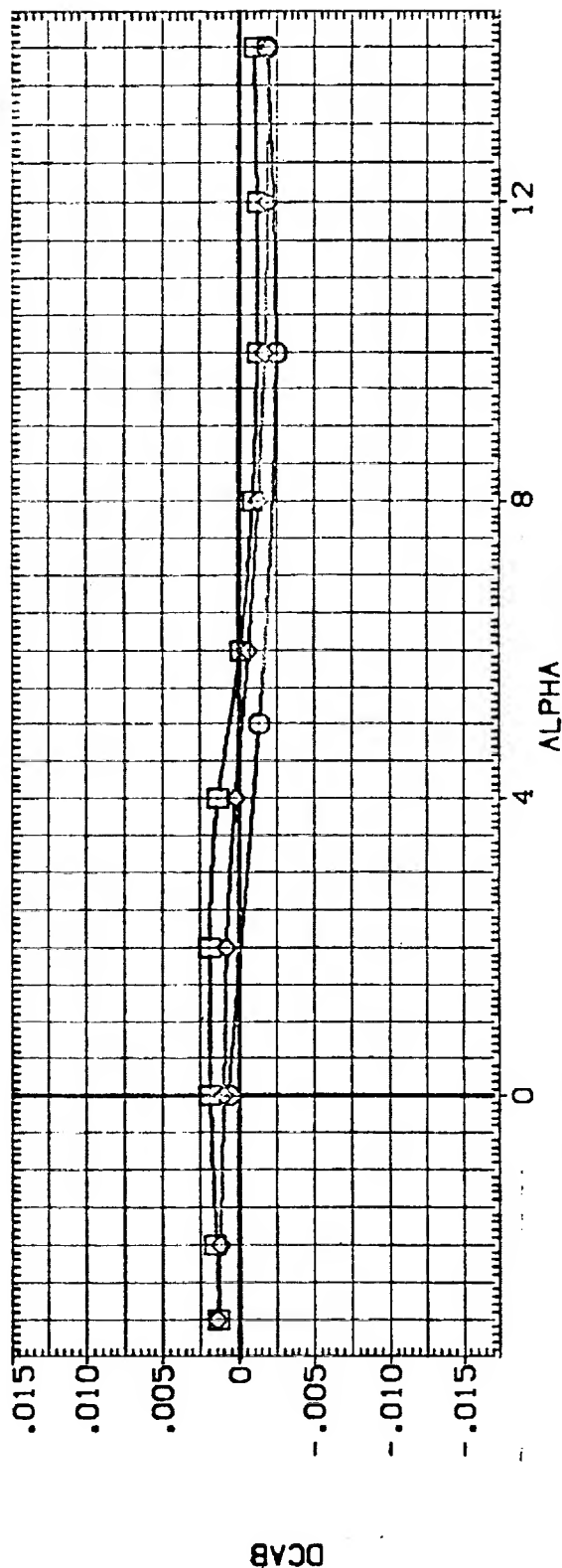


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(VER014)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	ARC 66-709 OAS9 0A11A-(RS V8)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

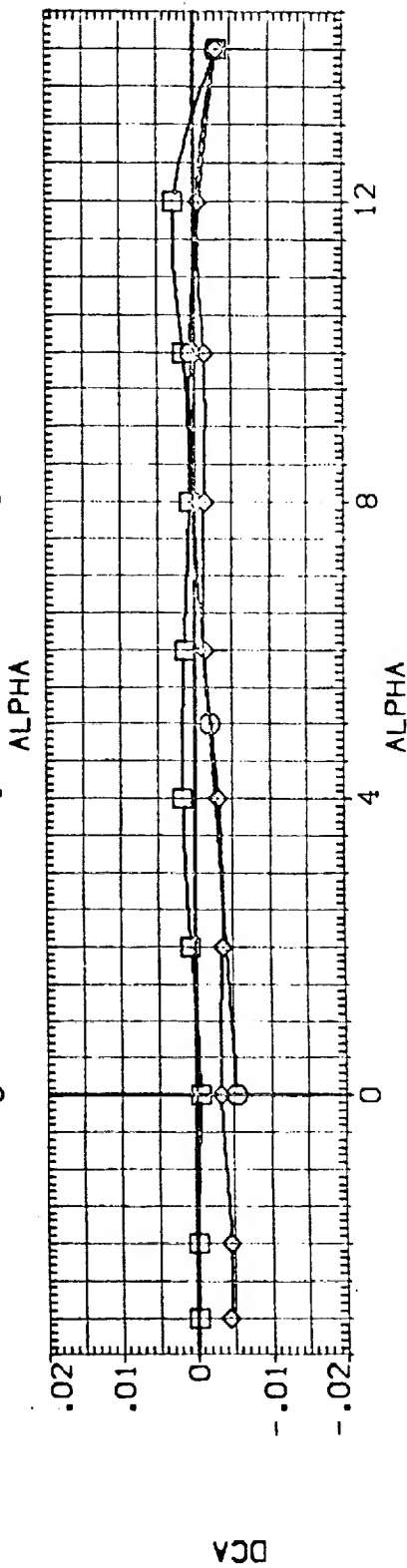
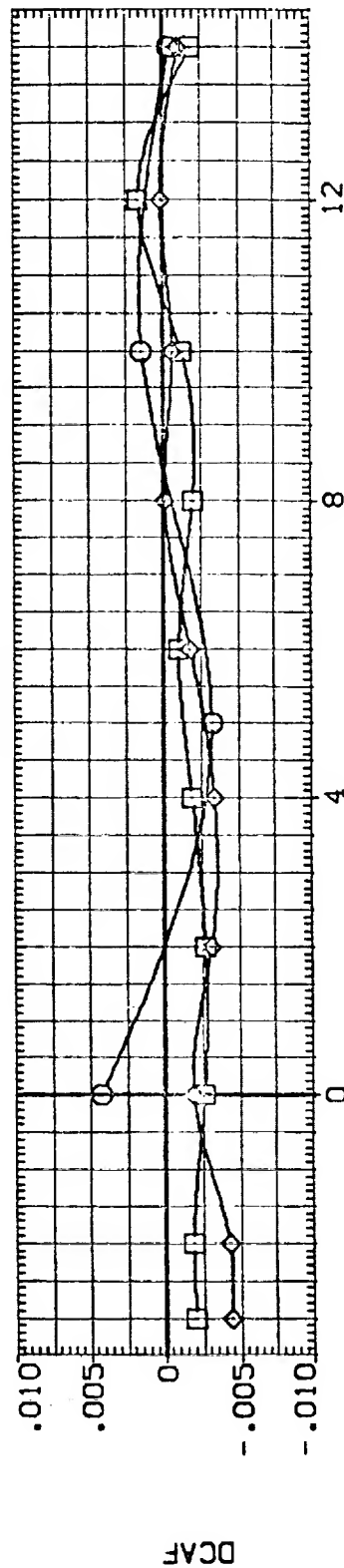
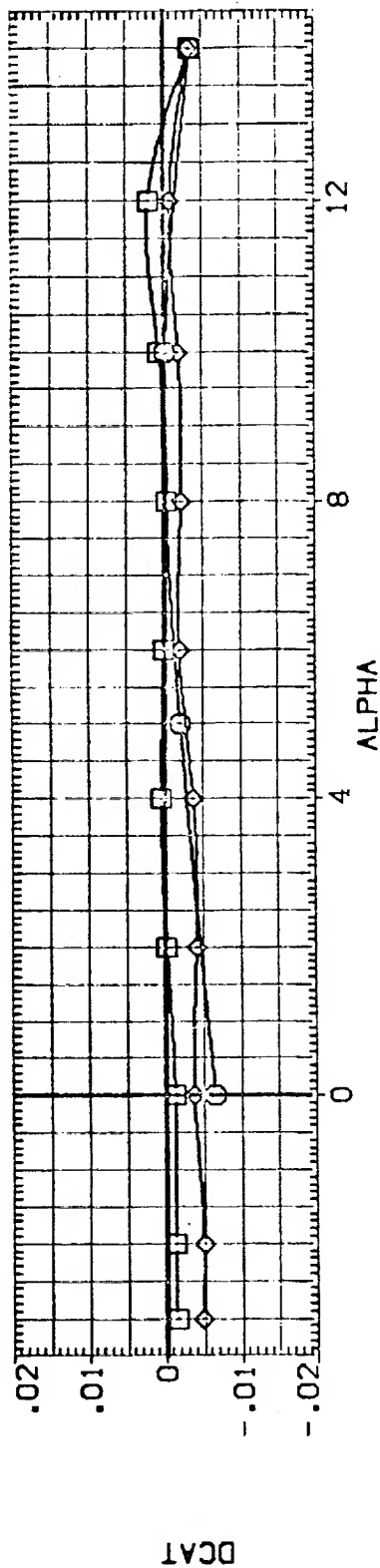


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(A)MACH = .60

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	BETA	ELEVON	BD FLAP	REFERENCE INFORMATION
(VER012)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER014)	ARC 66-709 DASS DA11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
(VER015)	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

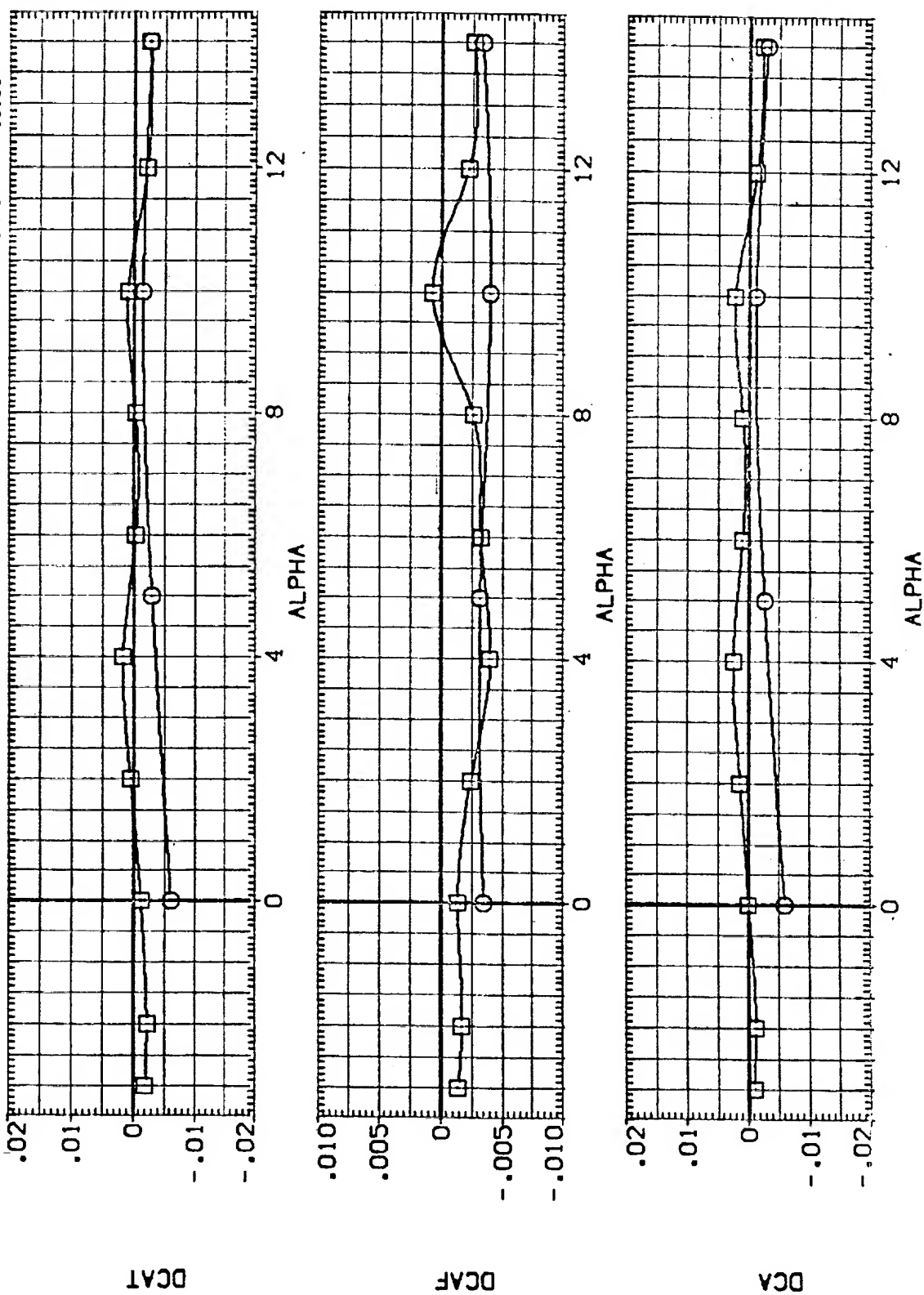



FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(B)MACH = .70

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:
 (VER012) ARC 66-709 QAS9 0A11A-(R5 V81)*STRUT
 (VER014) DATA NOT AVAILABLE
 (VER015) DATA NOT AVAILABLE

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700
 .000
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 FT.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

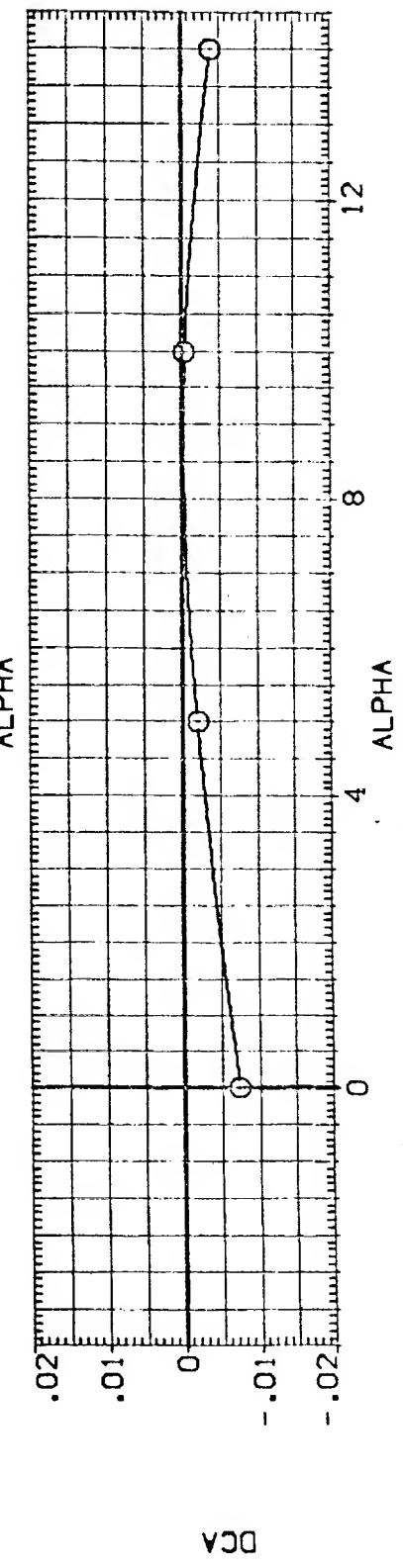
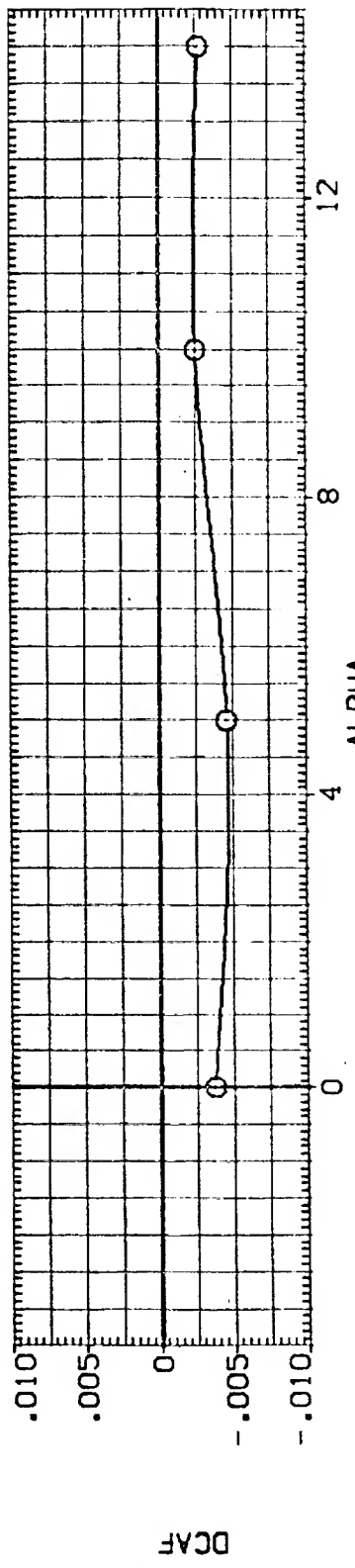
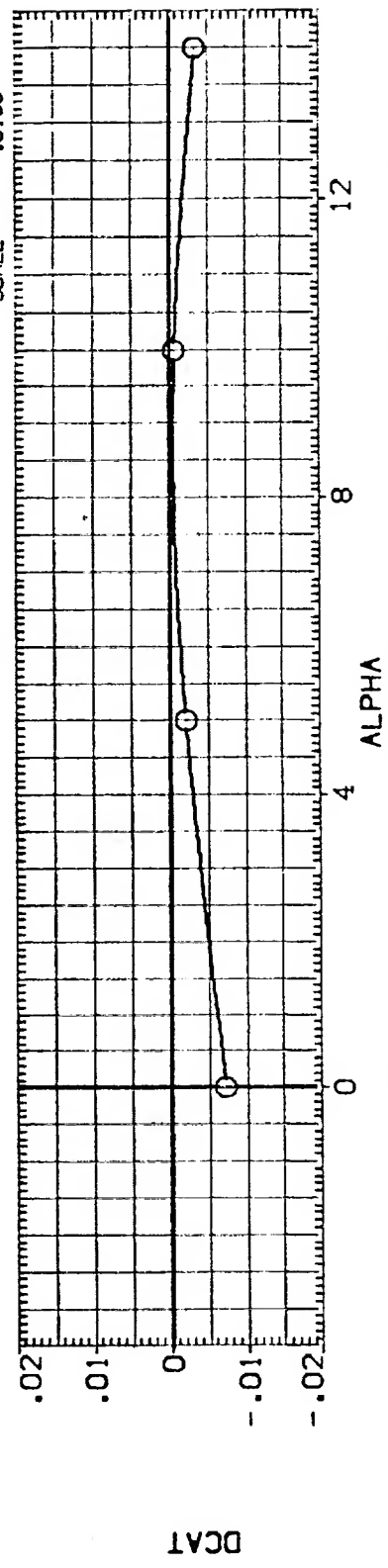


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(CJMACH = .75

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[VER012]	ARC 66-709 OAS9 OA11A-(RS V8)+STRUT	.000	.000	-11.700	SREF .6053 59.FT.
[VER014]	ARC 66-709 OAS9 OA11A-(RS V8)+STRUT	.000	.000	16.300	LREF .5935 FT.
[VER015]	DATA NOT AVAILABLE	.000	.000	.000	BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

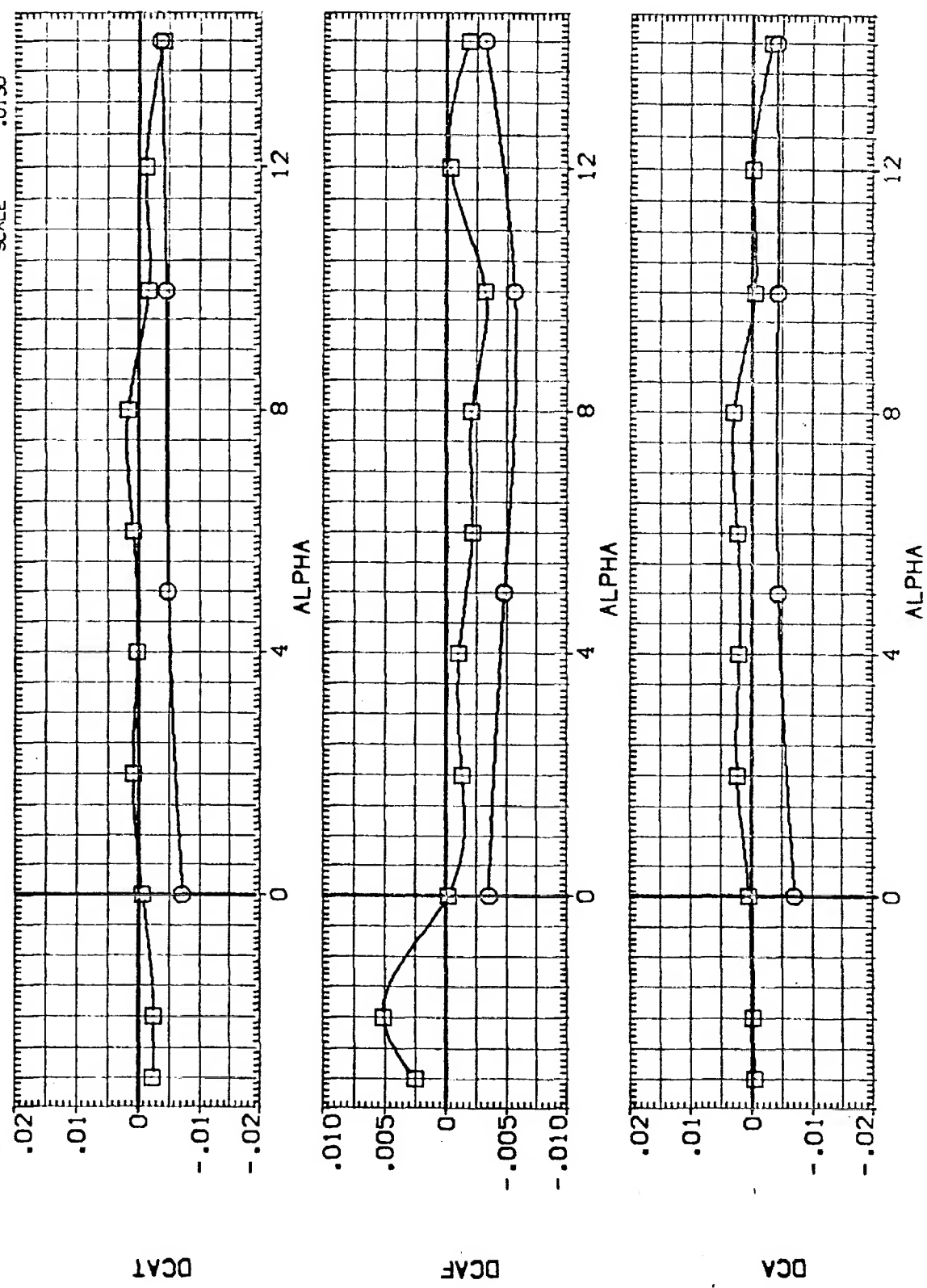


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(O)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 0A59 0A11A-(R5 V81)-STRUT
 (VER014) DATA NOT AVAILABLE
 (VER015) DATA NOT AVAILABLE

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

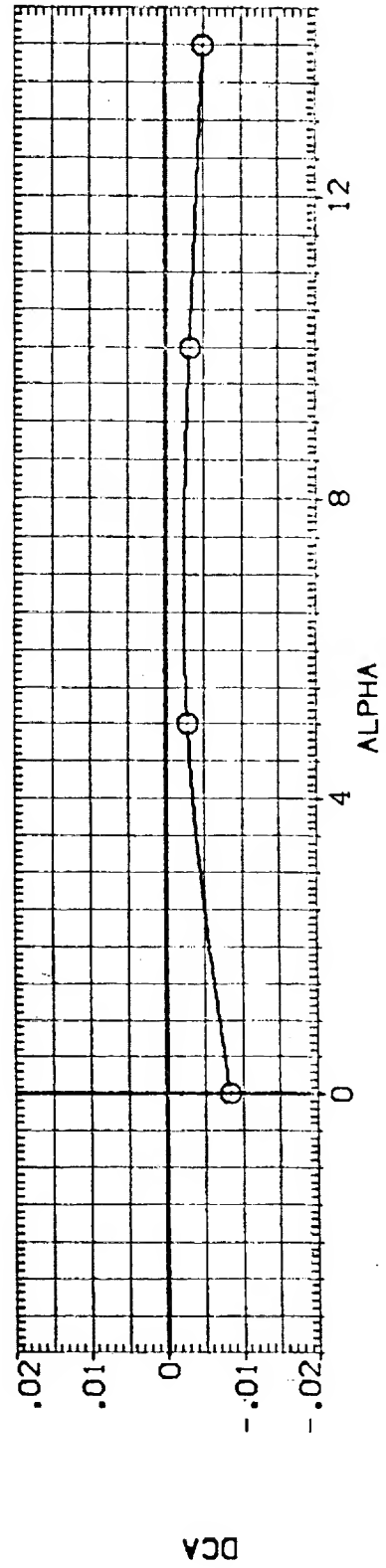
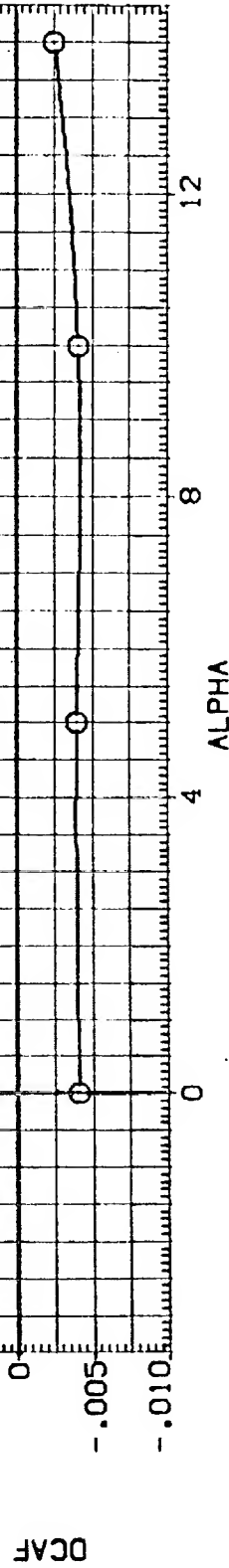
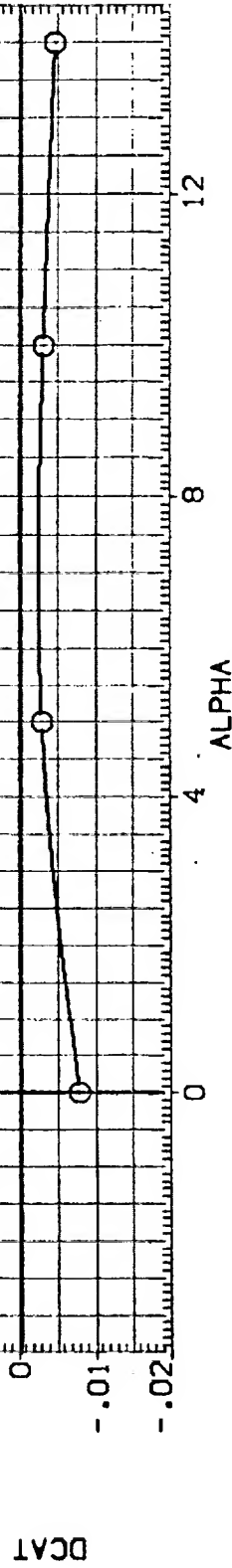


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(E)MACH = .85

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
[VER012]	ARC 66-709 DASS D111A-(RS V81)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
[VER014]	ARC 66-709 DASS D111A-(RS V81)+STRUT	.000	.000	.000	LREF .5935 FT.
[VER015]	ARC 66-709 DASS D111A-(RS V81)+STRUT	.000	.000	.000	BREF 1.1710 FT.
					XREF 12.6255 IN.
					YREF .0000 IN.
					ZREF -.3750 IN.
					SCALE .0150

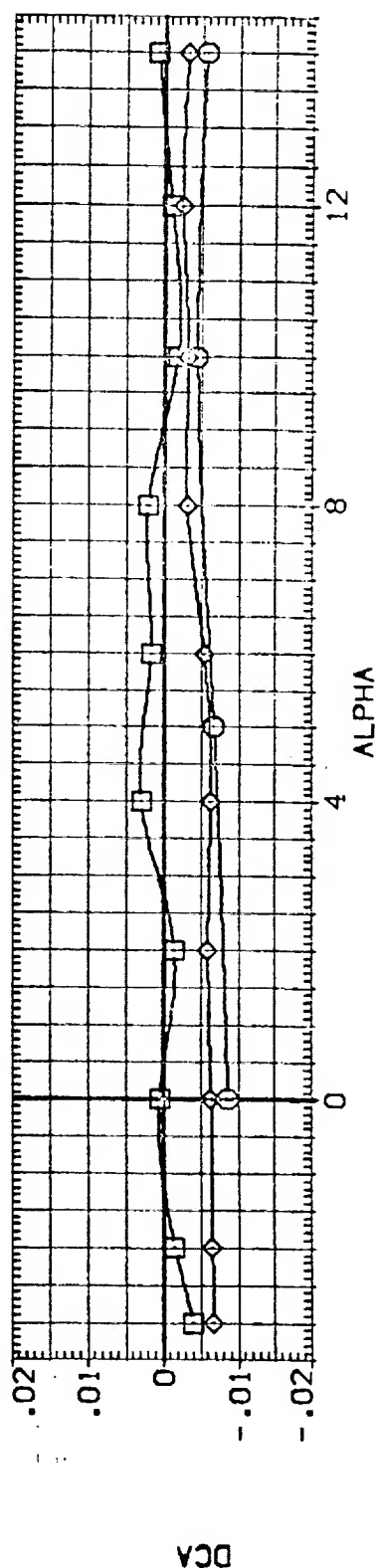
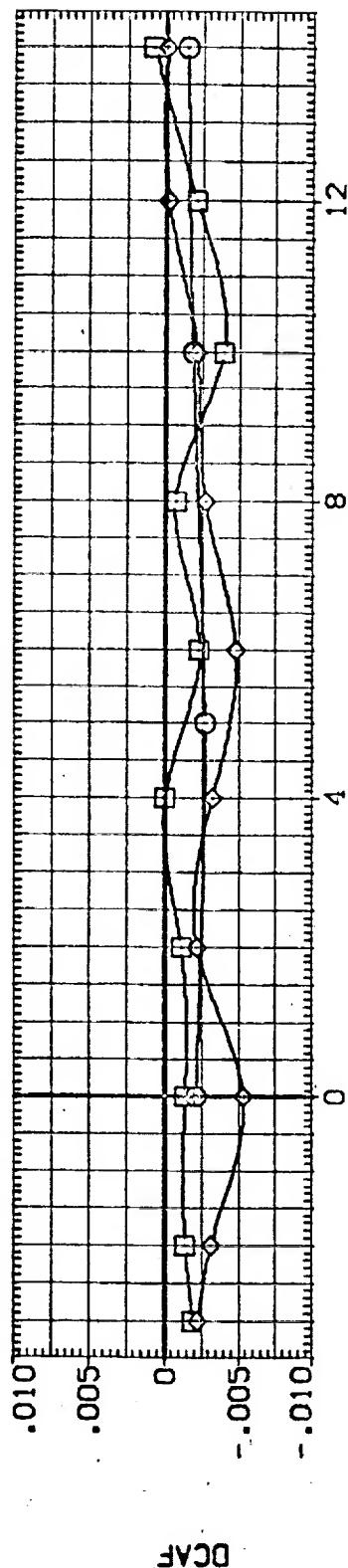
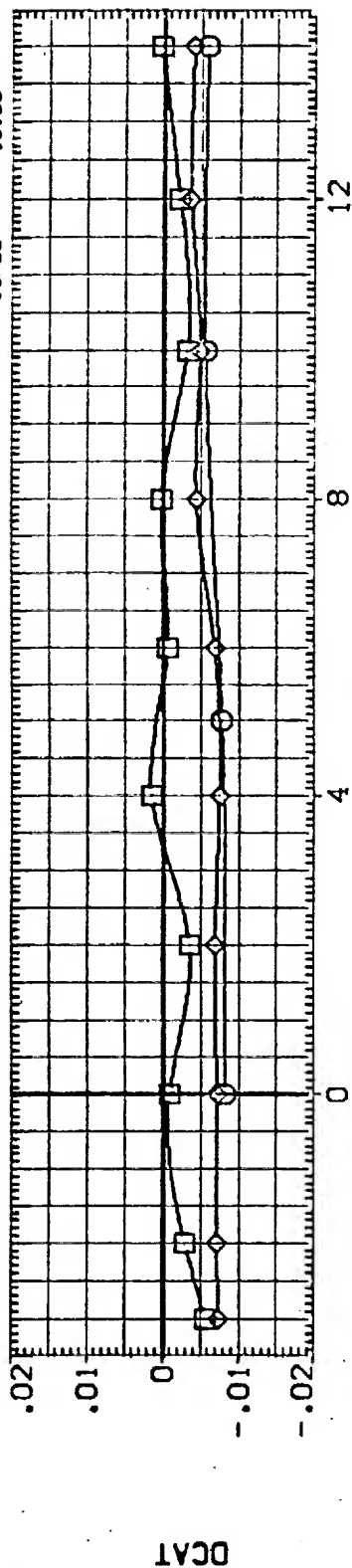


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(F)MACH = .90

DATA SET SYMBOL: (VER012) (VER014) (VER015)

CONFIGURATION DESCRIPTION: ARC 66-709 0459 0A11A-(RS V8)+STRUT
DATA NOT AVAILABLE
DATA NOT AVAILABLE

BETA: .000
ELEVON: .000
BOFLAP: -11.700
16.300
.000

REFERENCE INFORMATION:
SREF: .6053 SQ.FT.
LREF: .5835 FT.
BREF: 1.1710 FT.
XMRP: 12.6255 IN.
YMRP: .0000 IN.
ZMRP: -.3750 IN.
SCALE: .0150

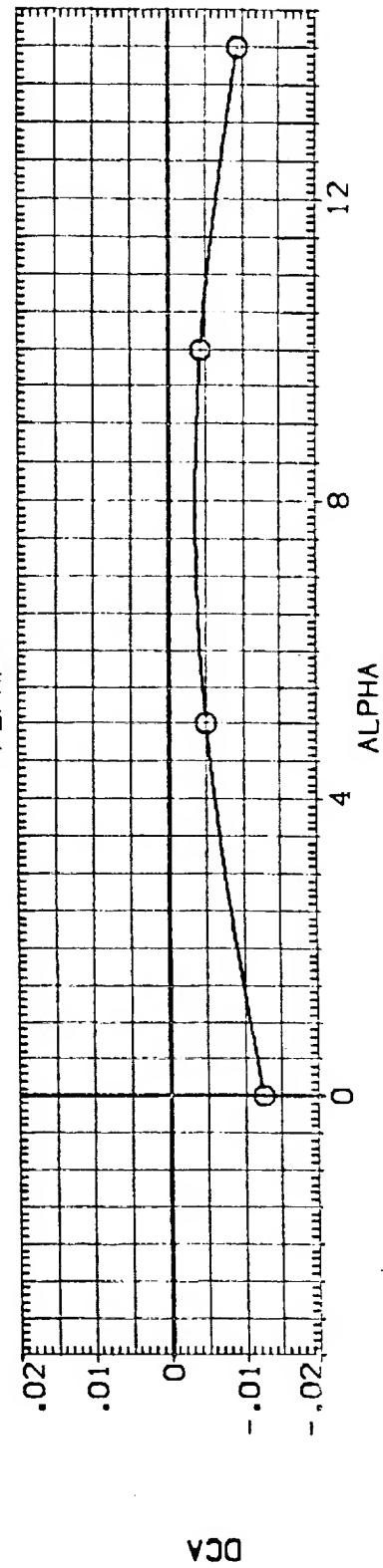
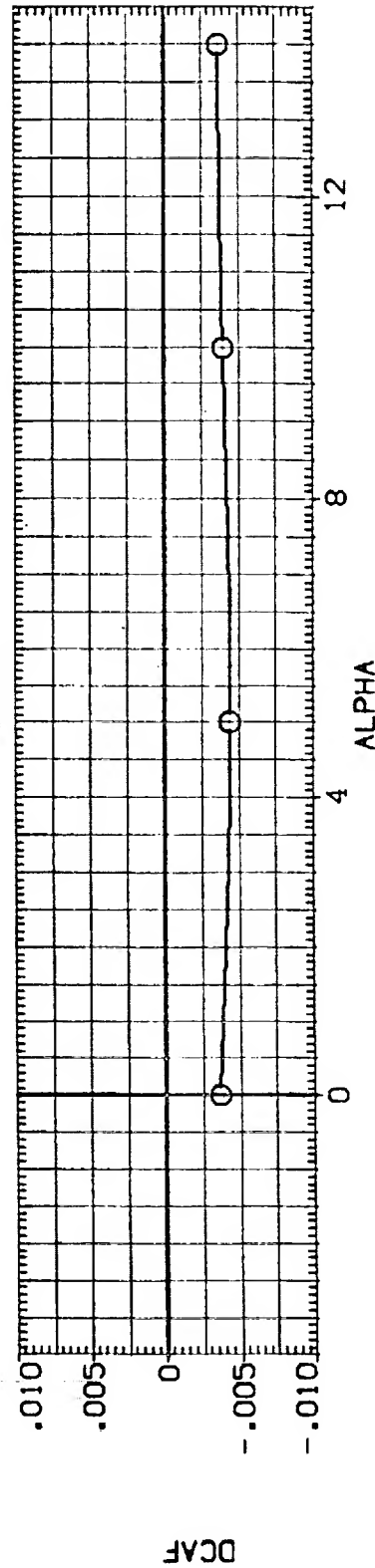
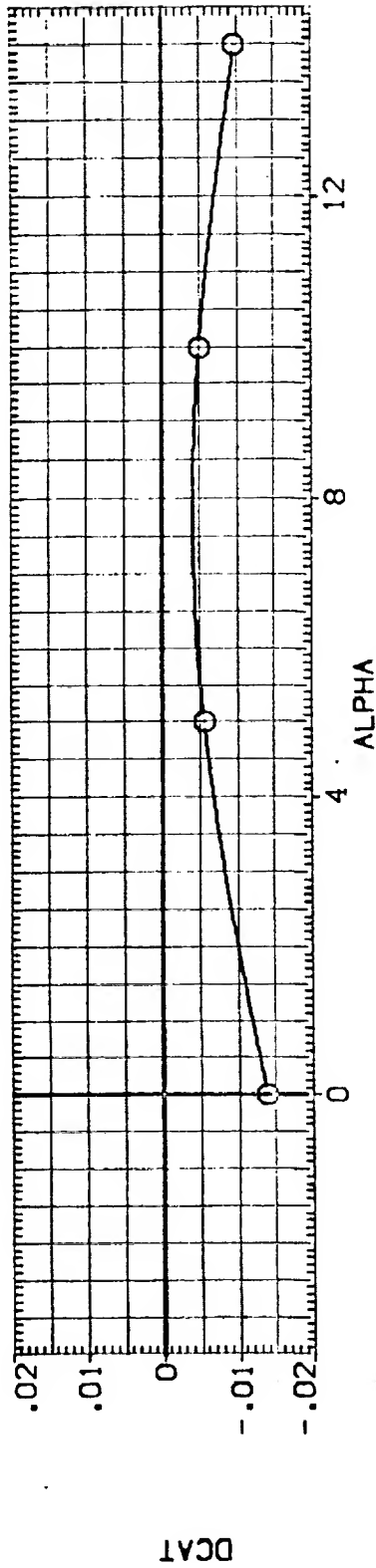


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(G)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VERO12) : ARC 66-709 QAS9 QALIA-(RS V8)+STRUT
 (VERO14) : ARC 66-709 QAS9 QALIA-(RS V8)+STRUT
 (VERO15) : ARC 66-709 QAS9 QALIA-(RS V8)+STRUT

BETA ELEVON BOELAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FL.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

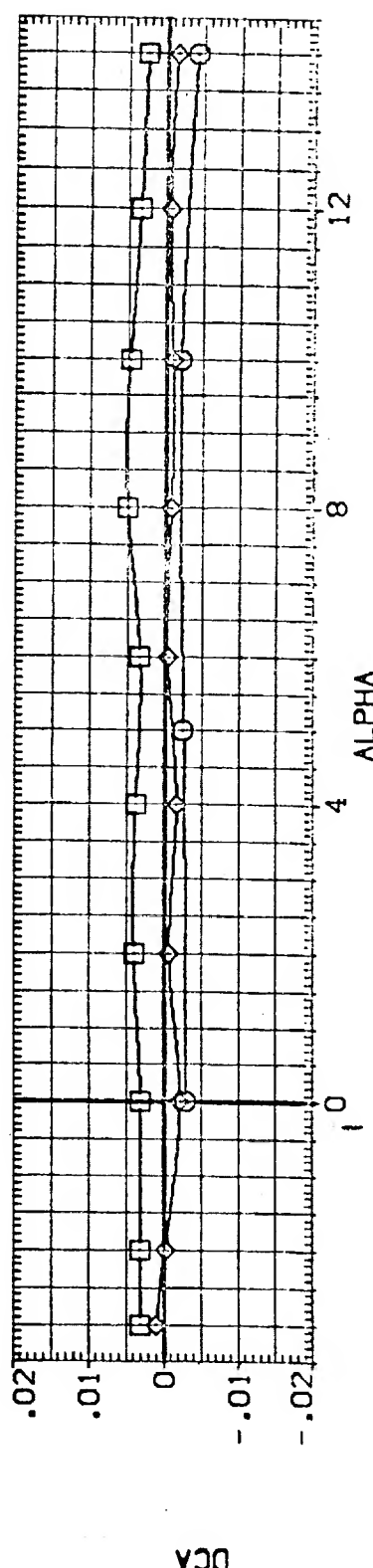
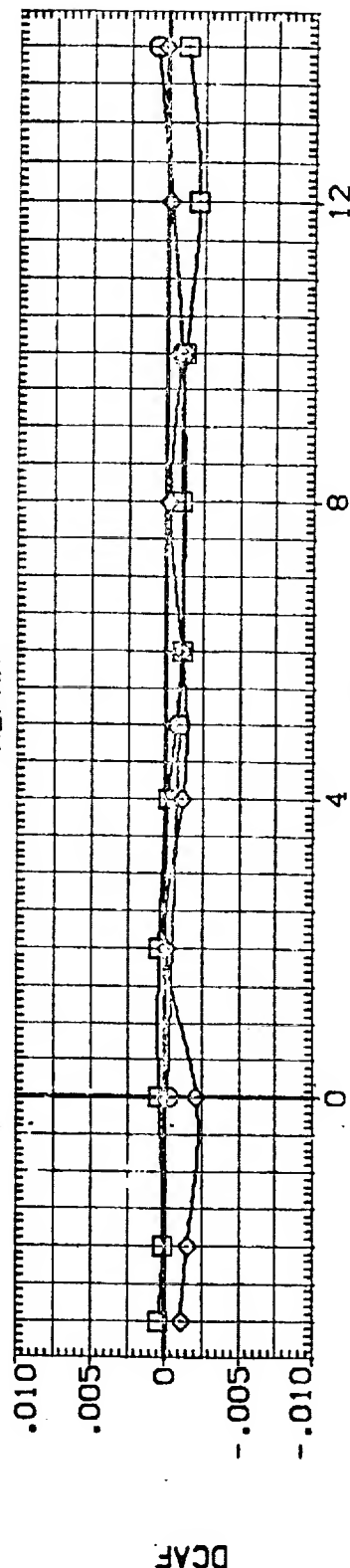
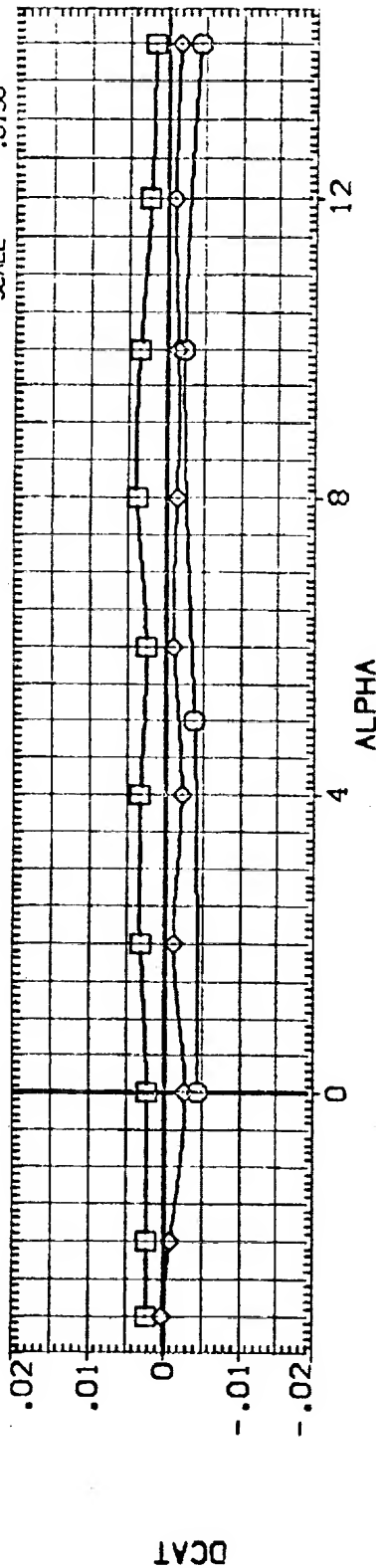


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(H)MACH = 1.20

DATA SET SYMBOL (VER012)
 (VER014)
 (VER015)

CONFIGURATION DESCRIPTION
 ARC 66-709 OAS9 OALIA-(RS VB1)+STRUT
 ARC 66-709 OAS9 OALIA-(RS VB1)+STRUT
 DATA NOT AVAILABLE

BETA .000
 ELEVON .000
 BOFLAP -11.700
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 YMRP 12.6255 IN.
 ZMRP .0000 IN.
 .3750 IN.
 SCALE .0150

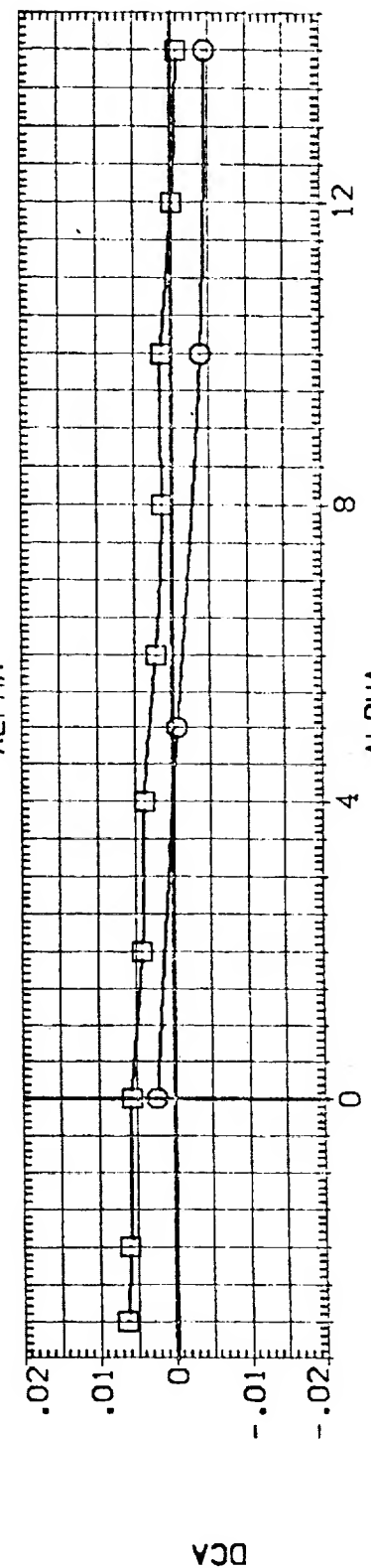
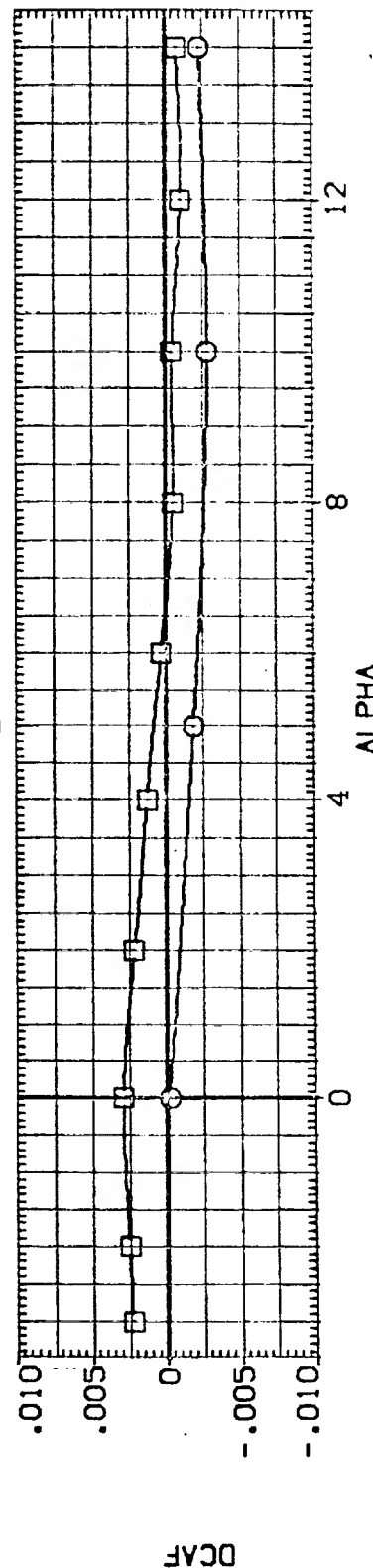
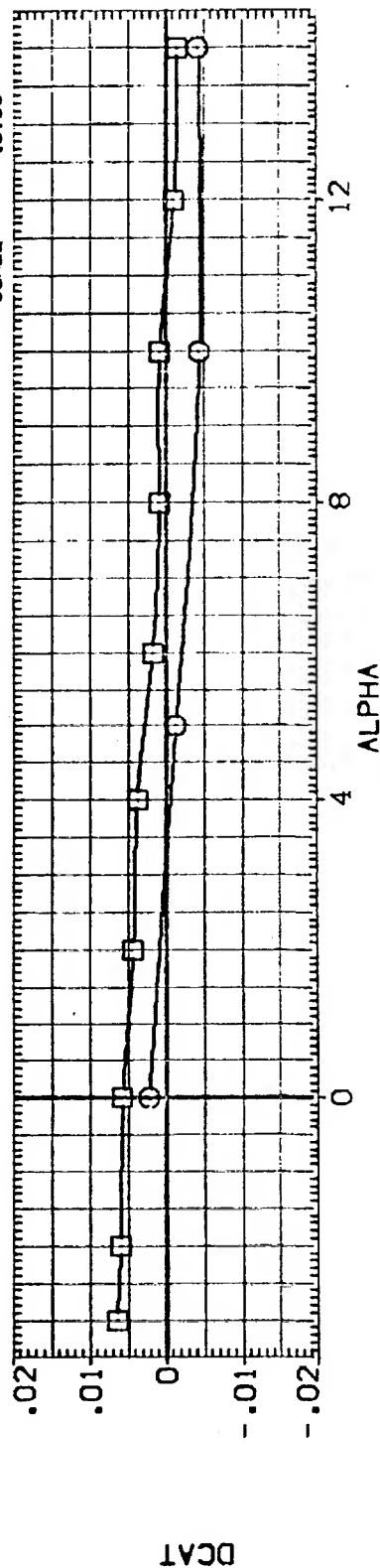


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(1)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER012) ARC 66-709 0A59 0A11A-(RS V81)+STRUT
 (VER014) ARC 66-709 0A59 0A11A-(RS V8)+STRUT
 (VER015) ARC 66-709 0A59 0A11A-(RS V81)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 16.300
 .000 .000 .000

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

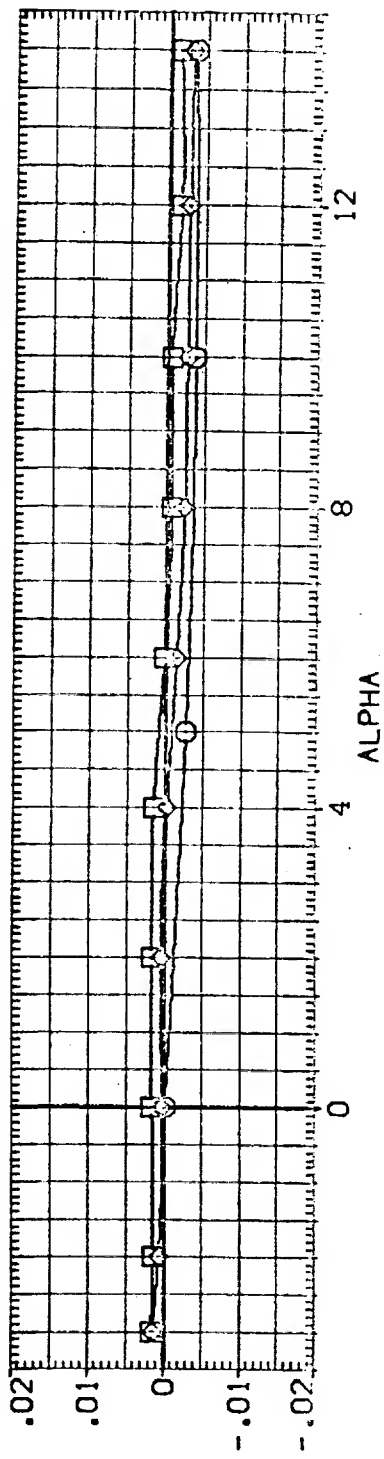
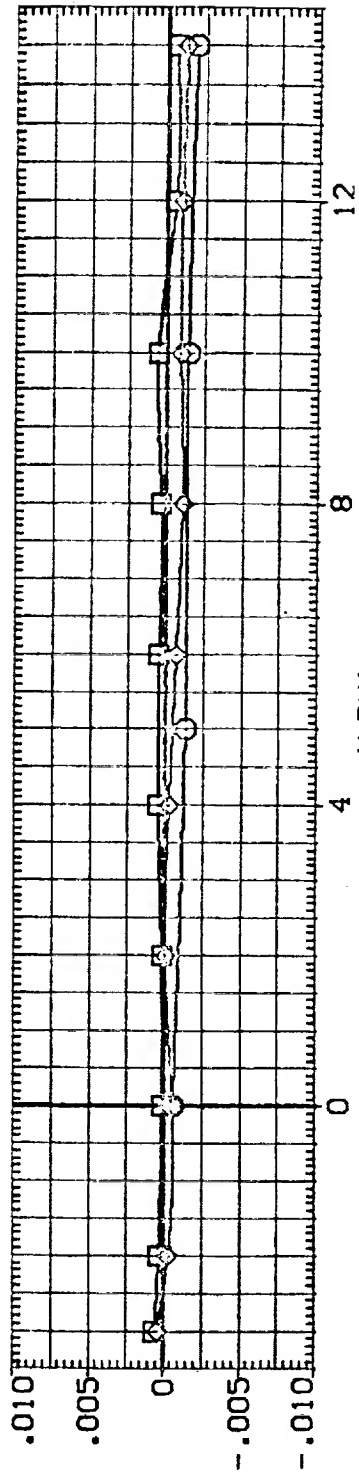
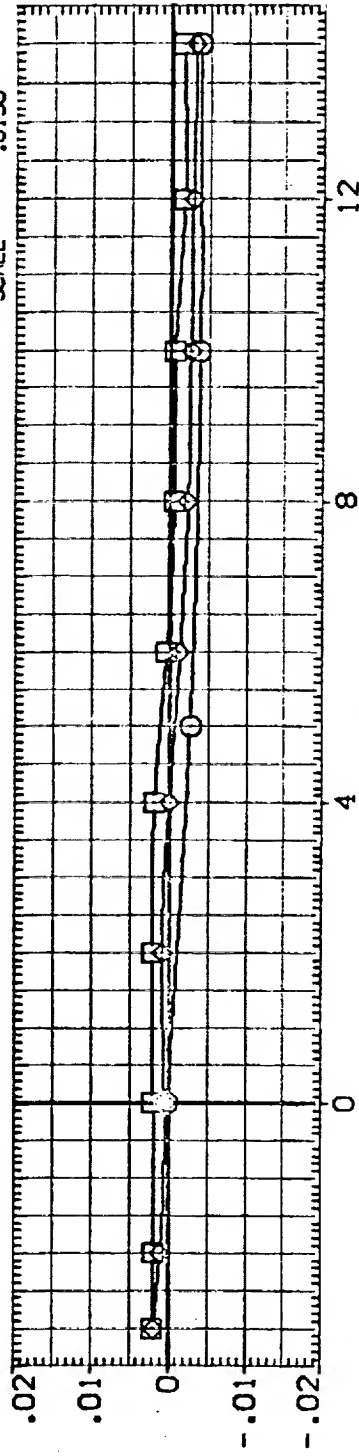


FIG. 8 PITCH TARES FOR DEFLECTED BODY FLAP

(J)MACH = 2.00

DATA SET SYMBOL: (UER009) (UER012) ☐ ☐ CONFIGURATION DESCRIPTION: ARC 66-709 OAS9 0A11A-(N24 RS V81)+STRUT ARC 66-709 OAS9 0A11A-(RS V81)+STRUT

BETA: .000 .000 ELEVON: .000 .000 BOFLAP: -11.700 -11.700

REFERENCE INFORMATION: SREF: .6053 SQ.FT. LREF: .5935 FT. BREF: 1.1710 FT. XMRP: 12.6255 IN. YMRP: .0000 IN. ZMRP: -.3750 IN. SCALE: .0150

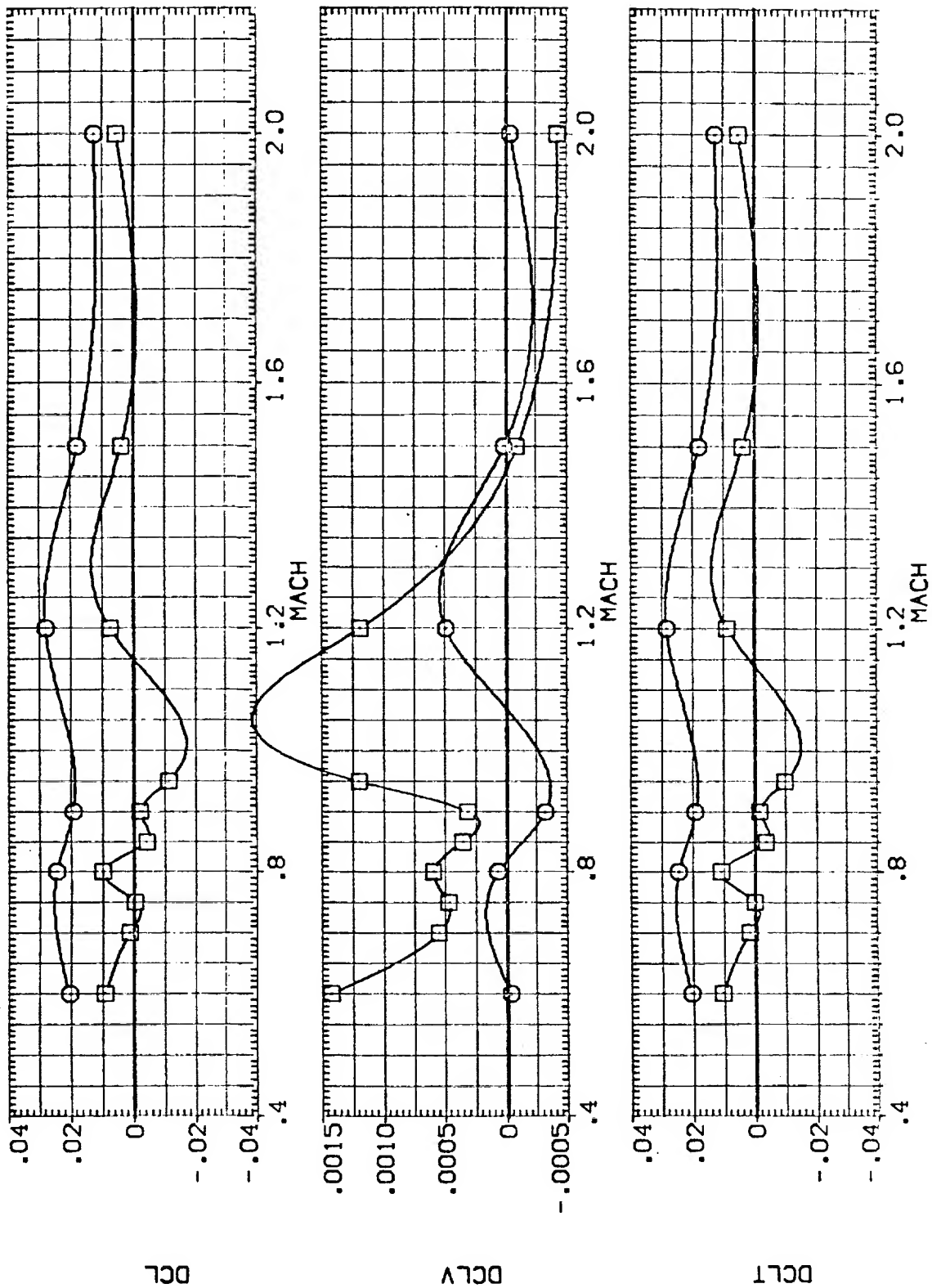


FIG. 9 PITCH TARE DATA COMPONENTS
(A) ALPHA = .00

DATA SET SYMBOL. CONFIGURATION DESCRIPTION
 (UER009) ARC 66-709 0A59 0A11A-(N24 R5 V8)+STRUT
 (UER012) ARC 66-709 0A59 0A11A-(R5 V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

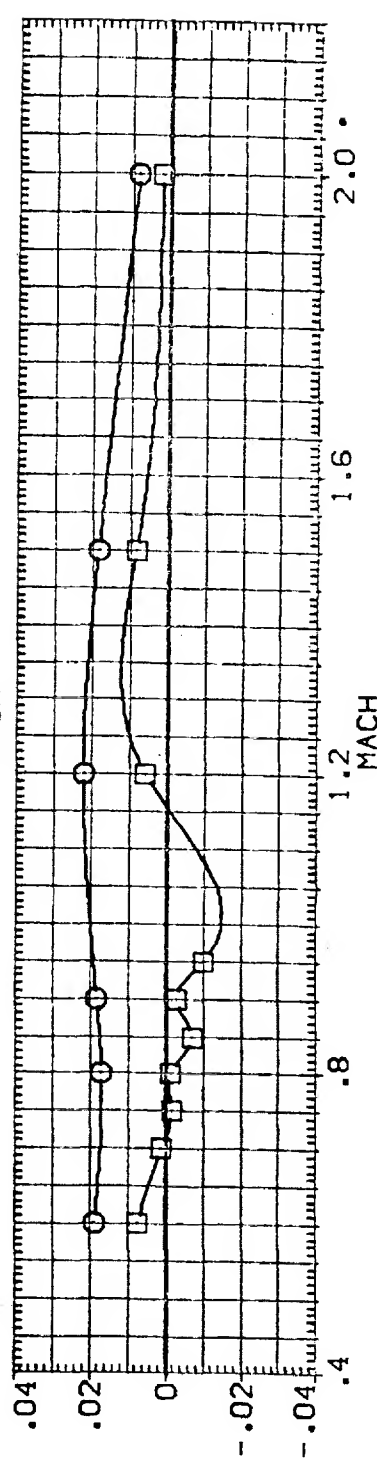
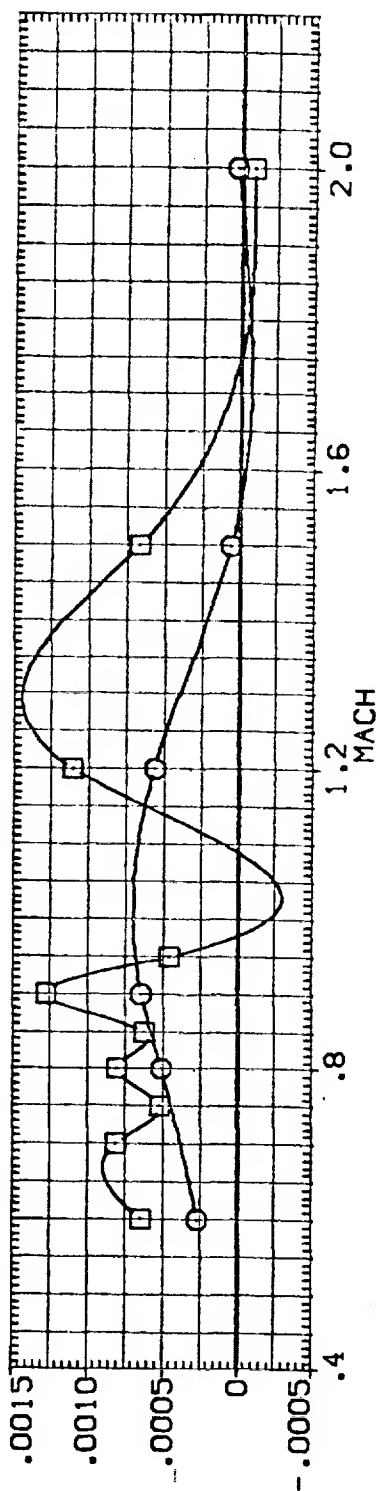
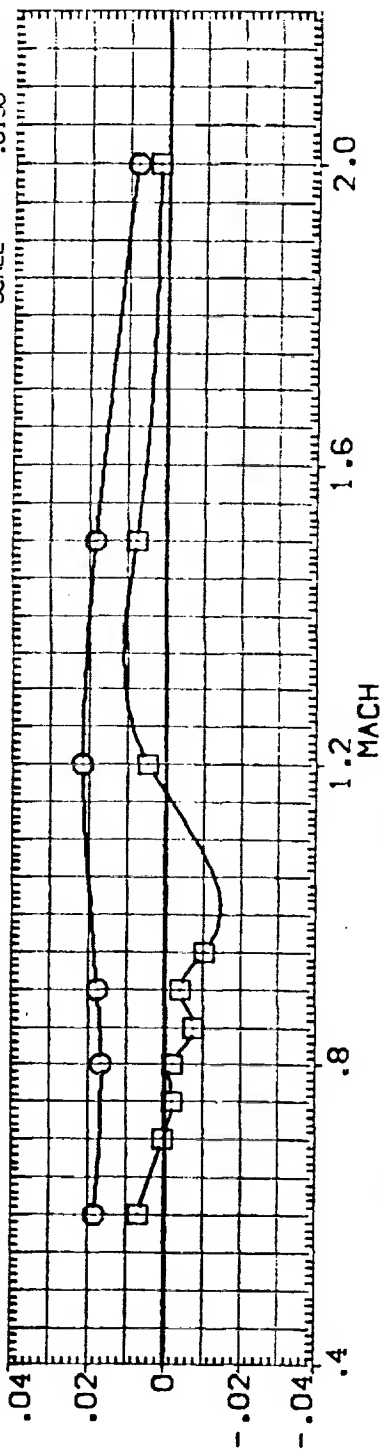


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 DAS9 DA11A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(UER012)	ARC 66-709 DAS9 DA11A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

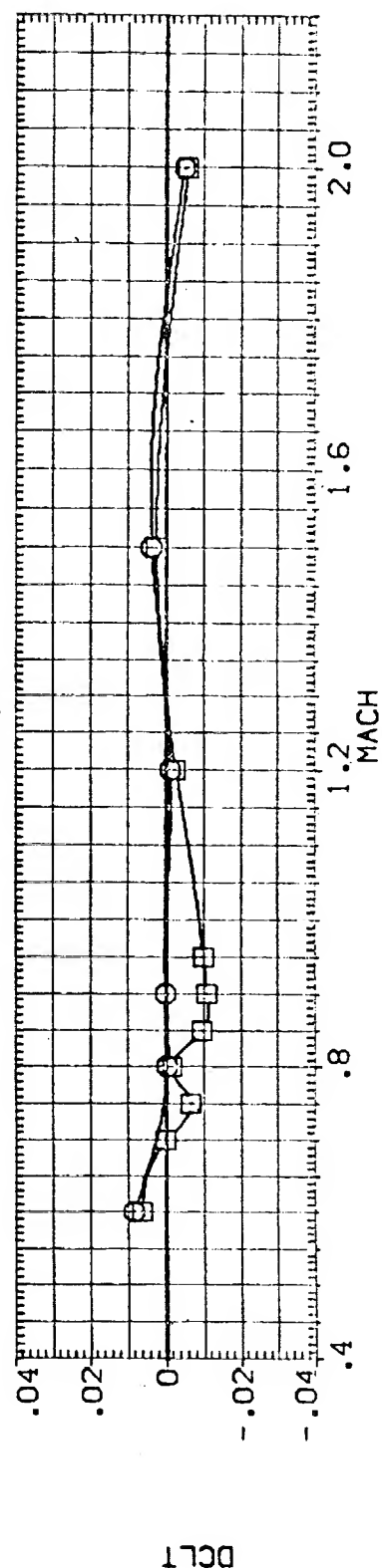
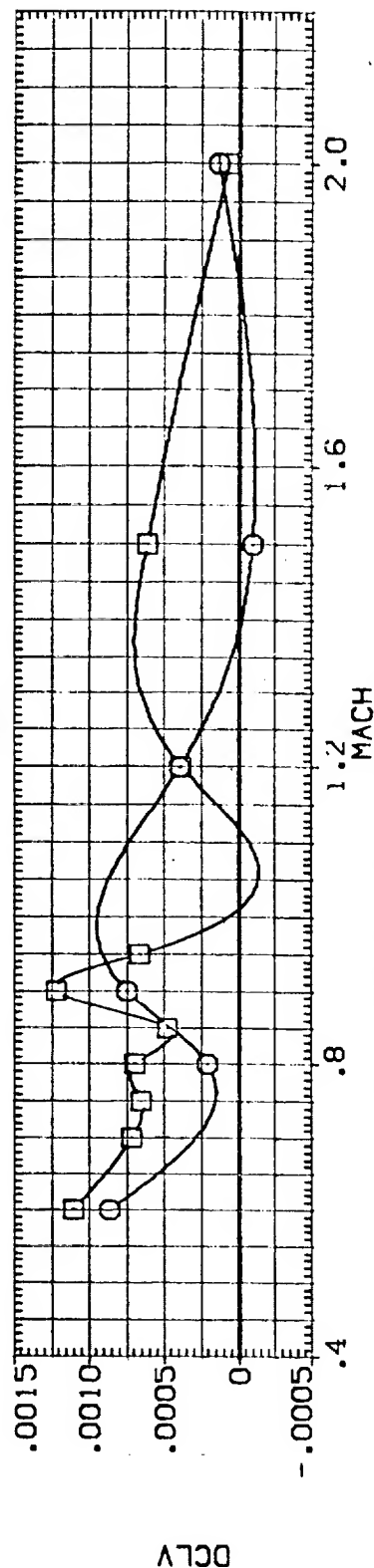
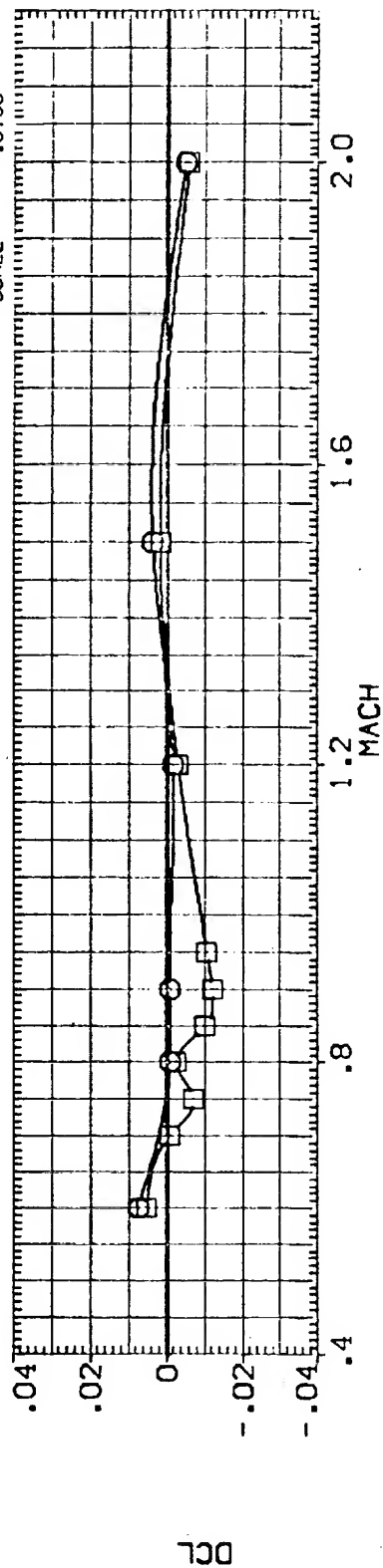


FIG. 9 PITCH TARE DATA COMPONENTS
(CJALPHA = 10.00

BETA	ELEVON	BDFLAP
.000	.000	-11.700
.000	.000	-11.700

REFERENCE INFORMATION	
SREF	.6053 50.FT.
LREF	.5935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

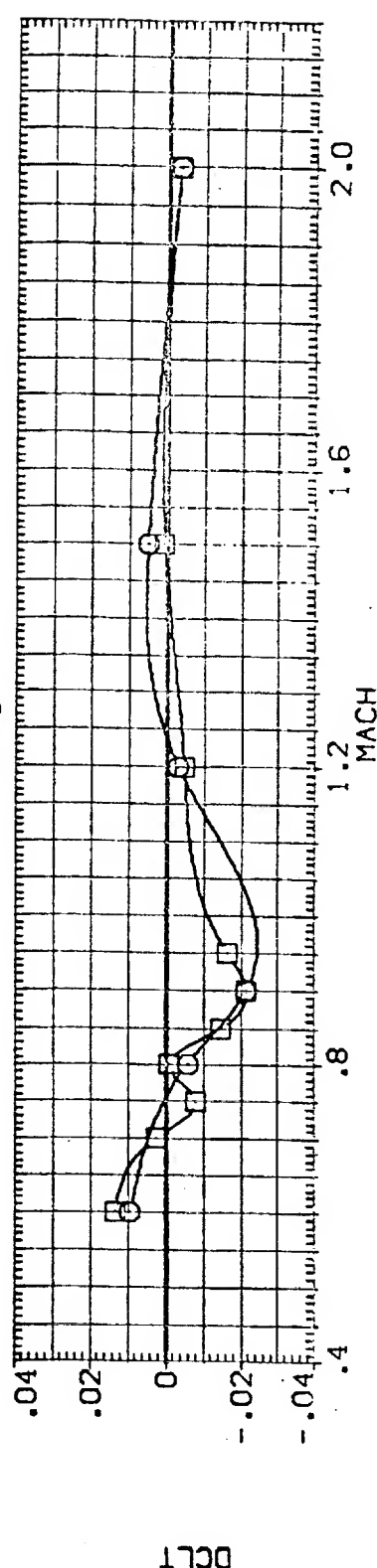
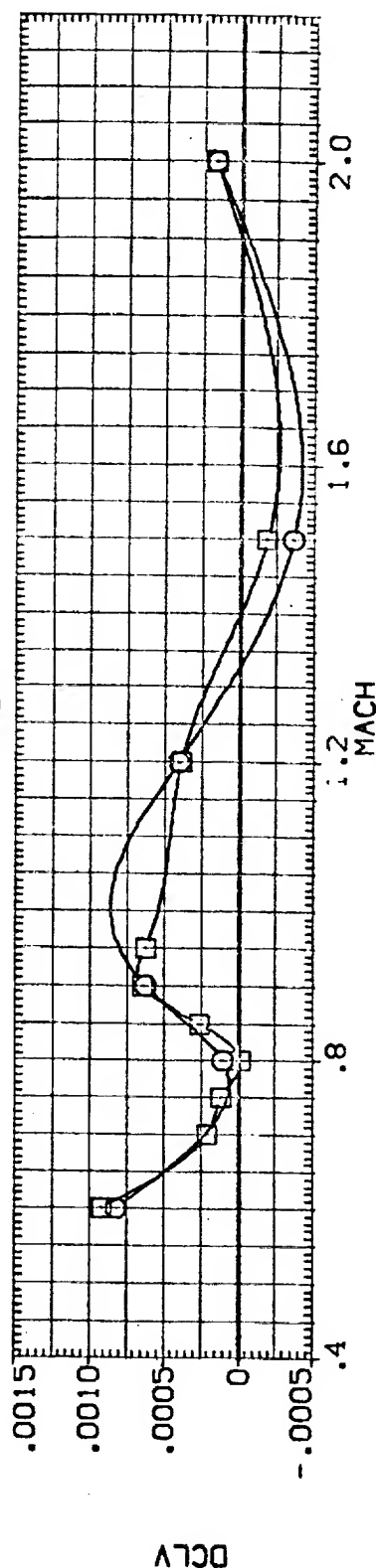
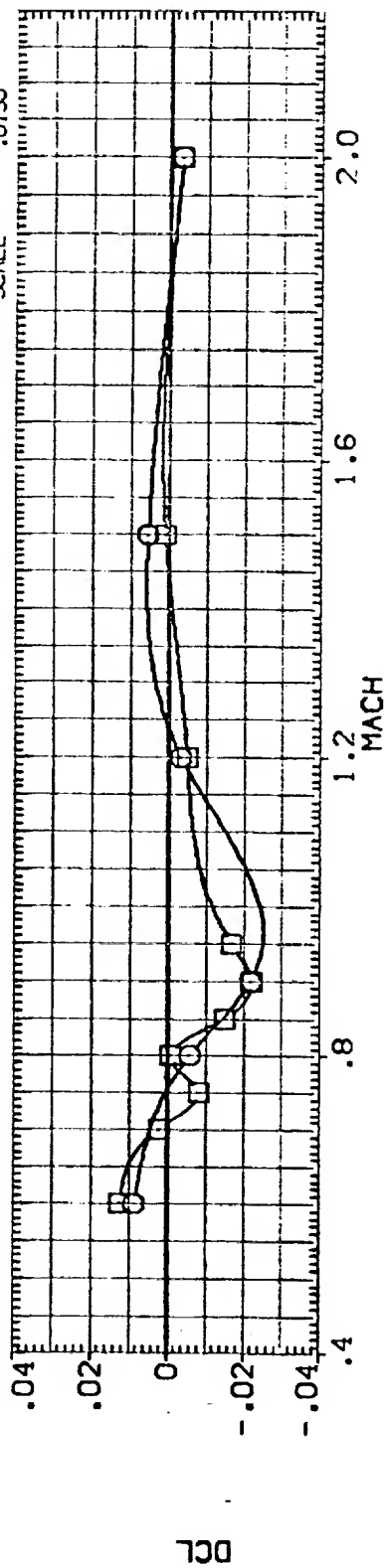


FIG. 9 PITCH TARE DATA COMPONENTS

(D)ALPHA = 14.00

DATA SET SYMBOL
(UER009)
(UER012)

CONFIGURATION DESCRIPTION
ARC 66-709 OAS9 0A11A-(N24 RS V8)+STRUT
ARC 66-709 OAS9 0A11A-(RS V8)+STRUT

BETA
.000
.000

ELEVON
.000
.000

BOFLAP
-11.700
-11.700

REFERENCE INFORMATION
SREF .6053 SQ.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

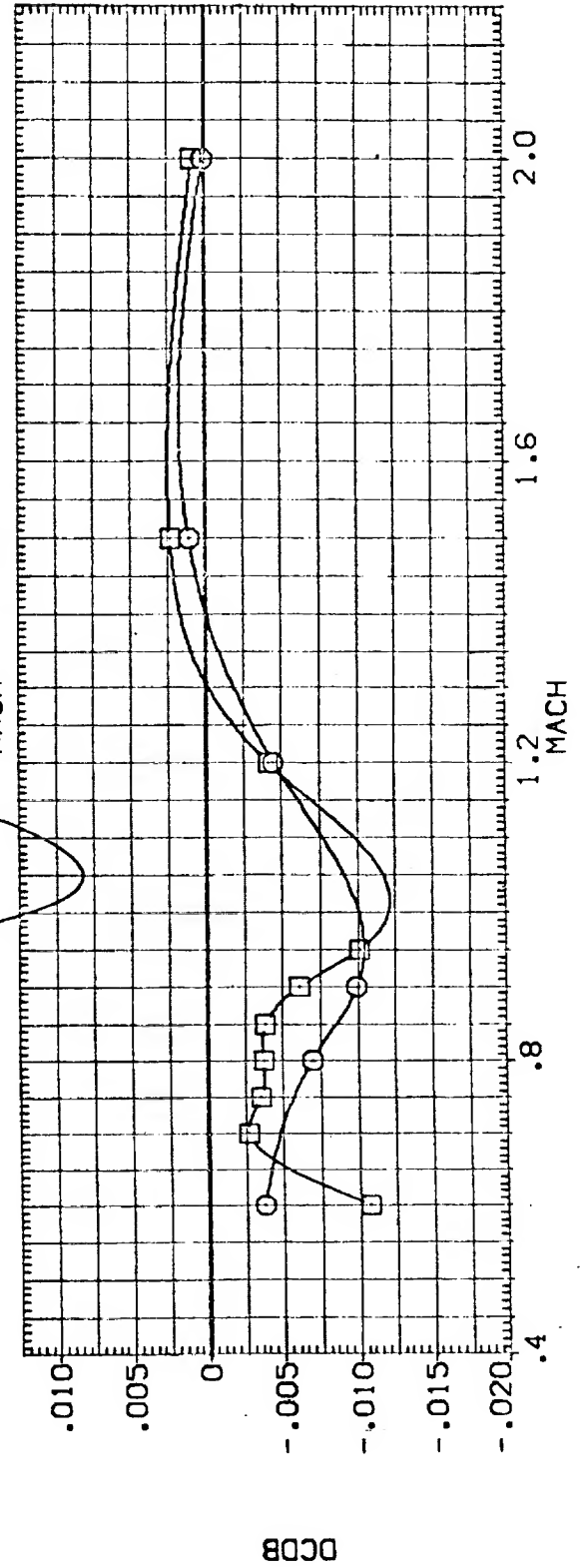
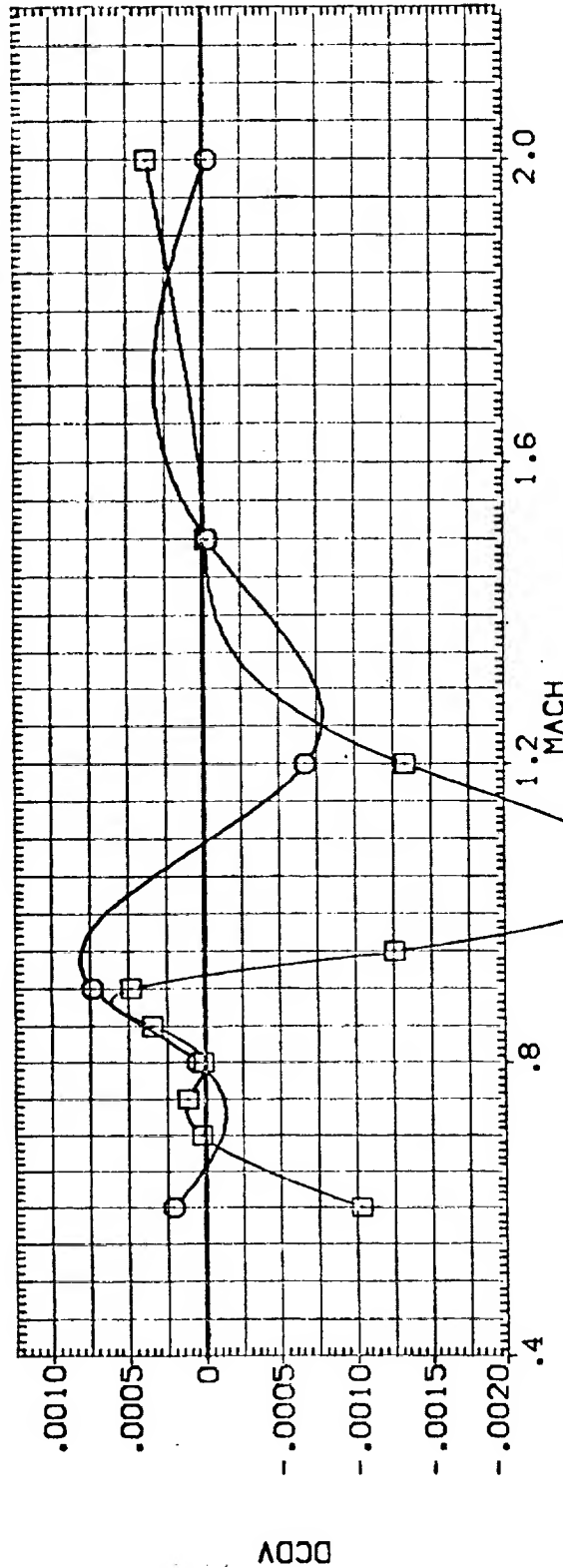


FIG. 9 PITCH TARE DATA COMPONENTS
(A) ALPHA = .00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER009) □ ARC 66-709 QAS9 DA11A-(N24 RS V8)+STRUT
 (UER012) □ ARC 66-709 QAS9 DA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

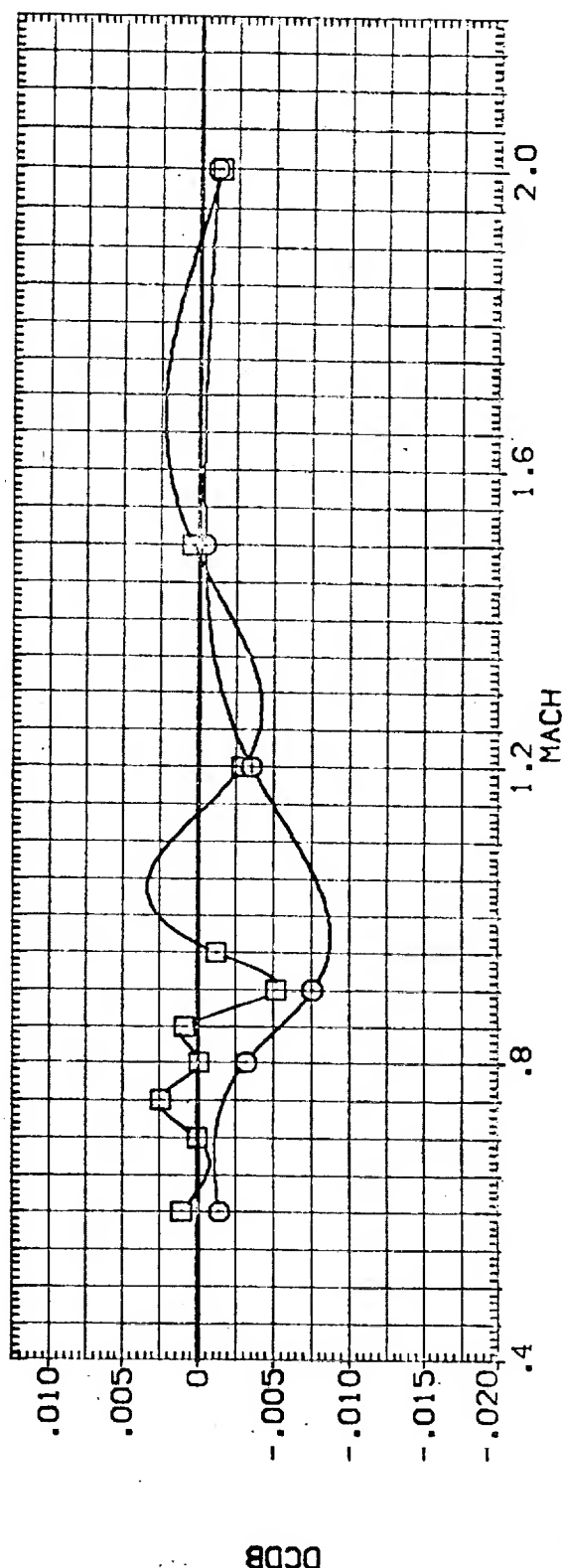
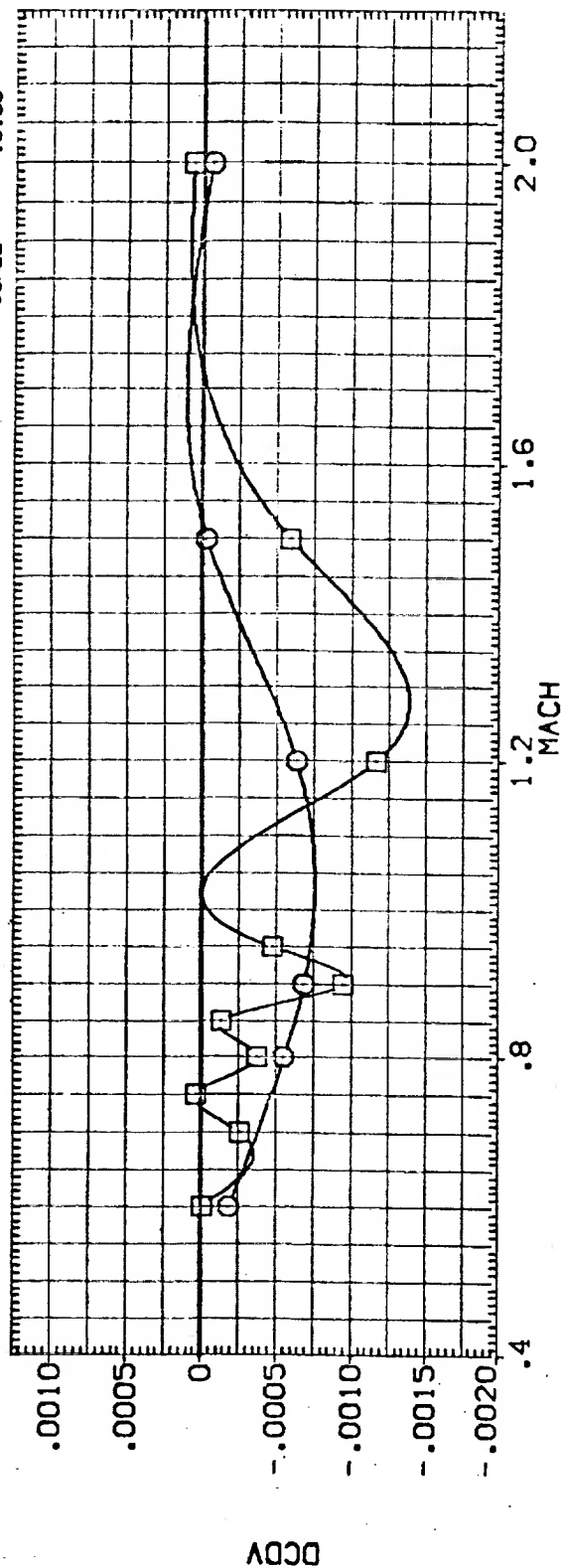


FIG. 9 PITCH TARE DATA COMPONENTS

(BJ)ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 QAS9 0A11A-(N24 RS V81)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER012)	ARC 66-709 QAS9 0A11A-(RS-V81)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE .0150

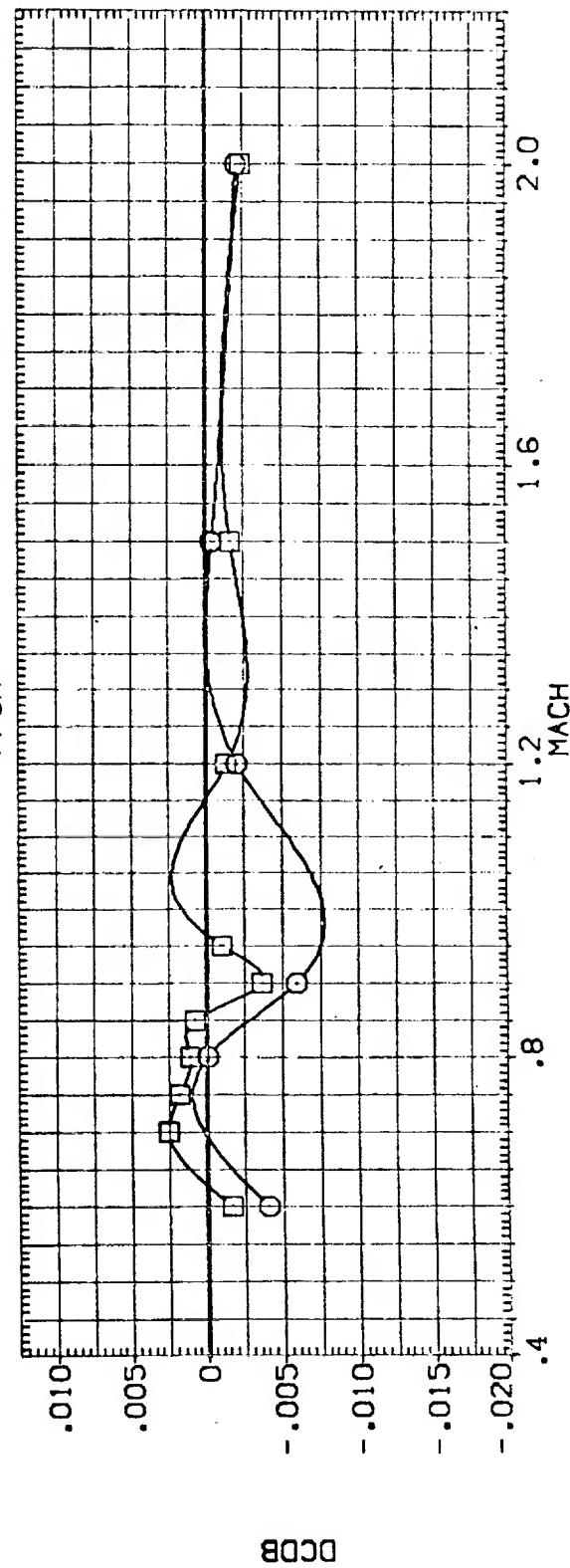
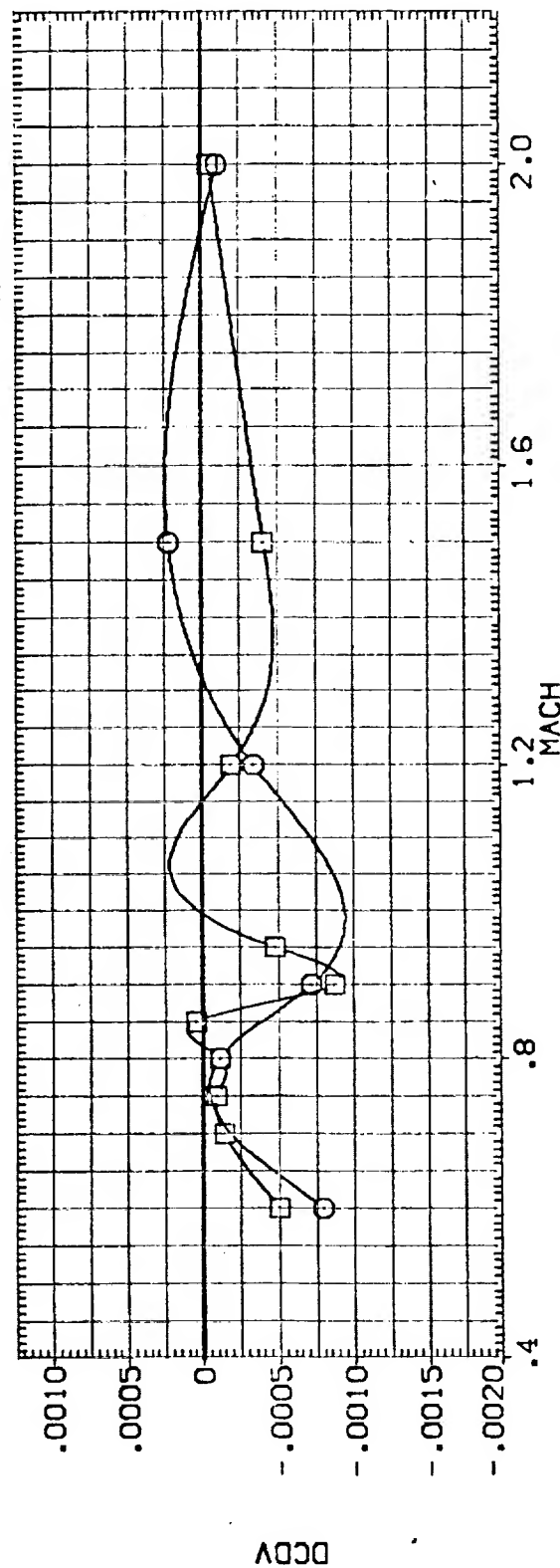


FIG. 9 PITCH TARE DATA COMPONENTS

(CJALPHA = 10.00

DATA SET SYMBOL: (UERO09) (UERO12)

CONFIGURATION DESCRIPTION

ARC 66-709 0A59 0A11A-(N24 R5 V81+STRUT
ARC 66-709 0A59 0A11A-(R5 V81+STRUT

BETA .000
ELEVON .000
BDF LAP -11.700

REFERENCE INFORMATION
SREF .6053 50.FT.
LREF .5935 FT.
BREF 1.1710 FT.
XMRP 12.6255 IN.
YMRP .0000 IN.
ZMRP -.3750 IN.
SCALE .0150

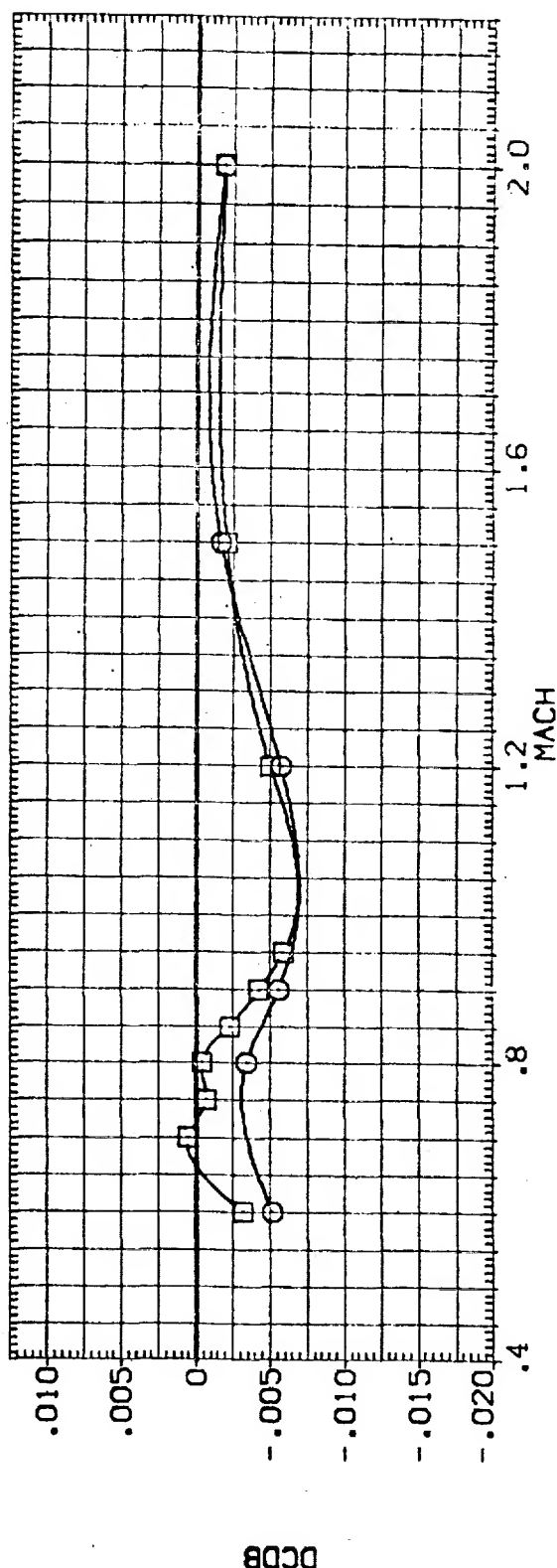
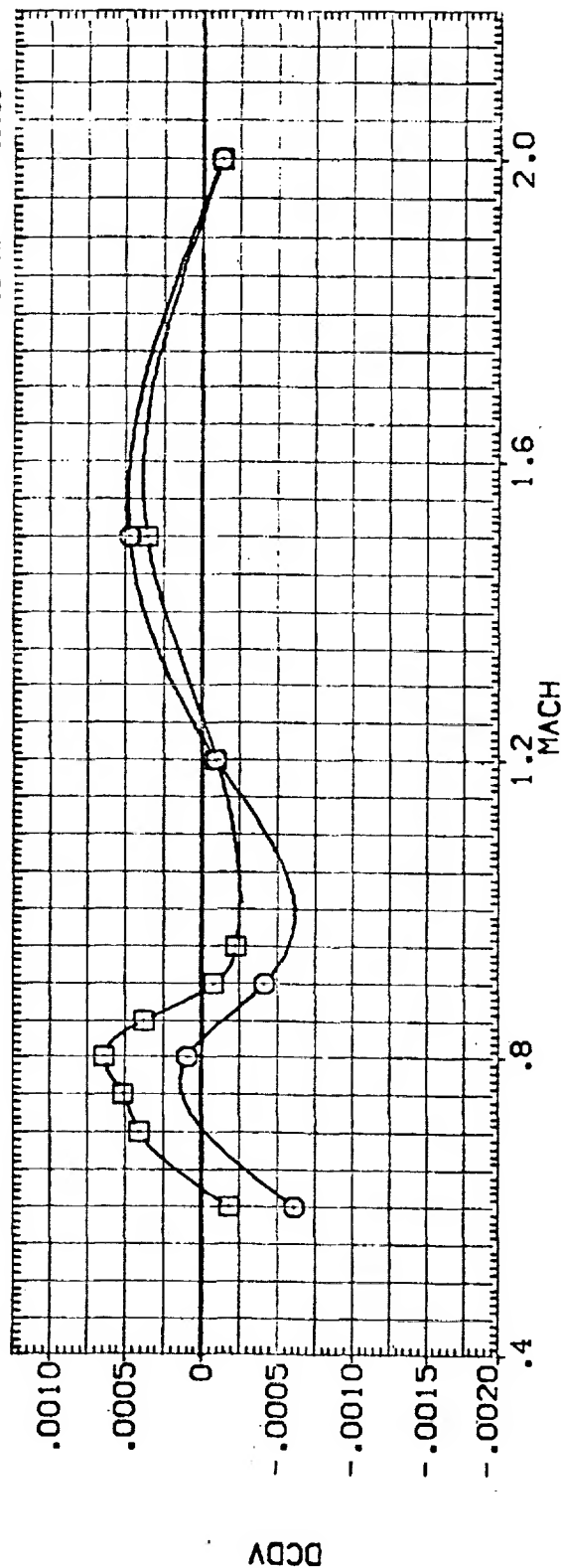


FIG. 9 PITCH TARE DATA COMPONENTS

(O) ALPHA = 14.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 OAS9 OAI1A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
(UER012)	ARC 66-709 OAS9 OAI1A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

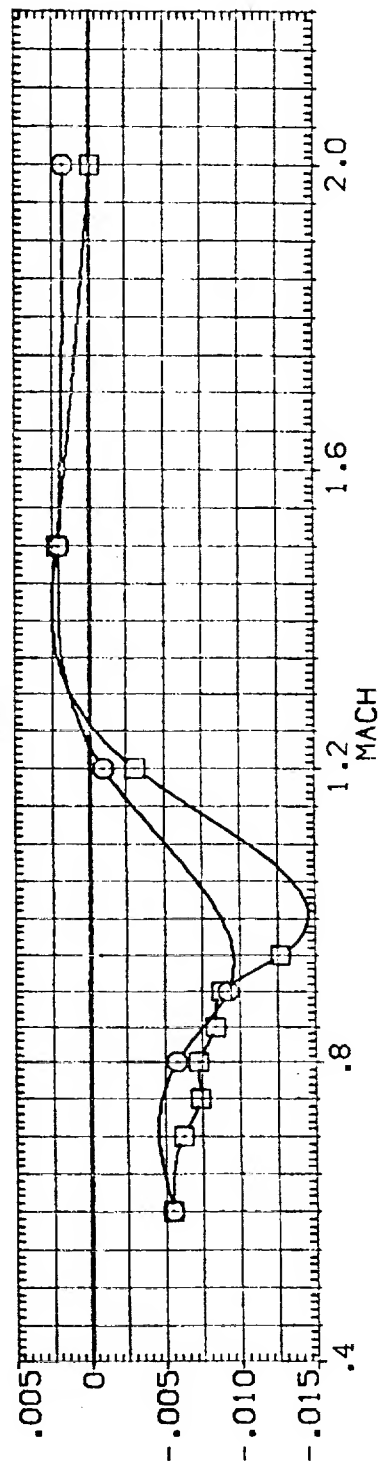
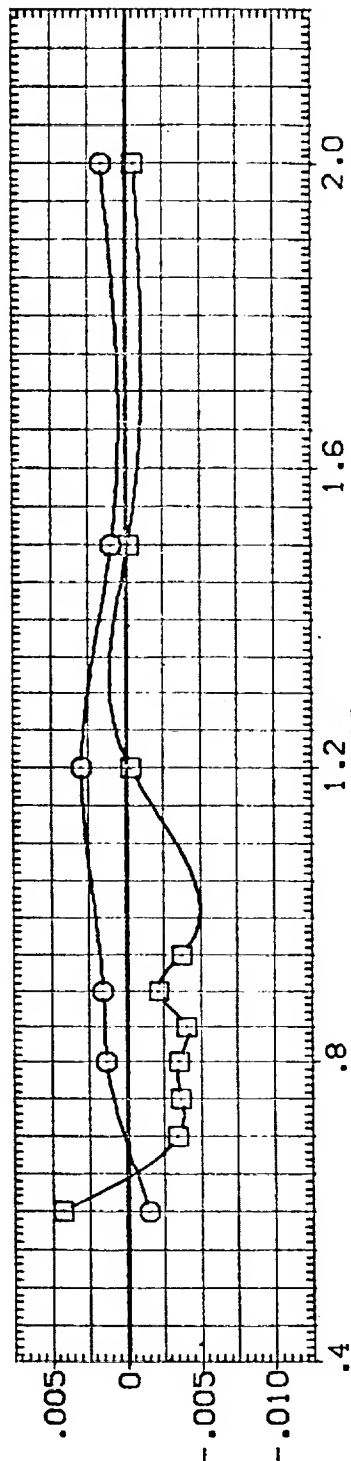
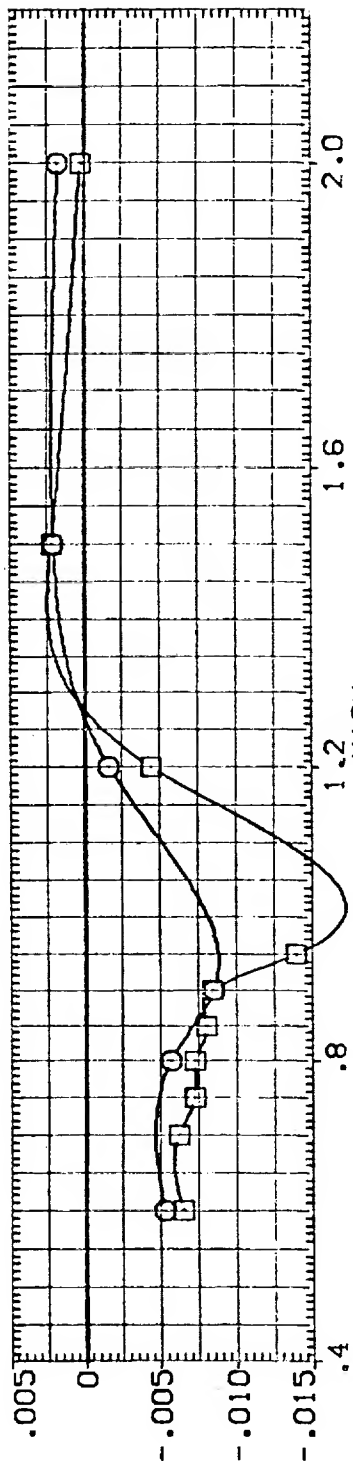


FIG. 9 PITCH TARE DATA COMPONENTS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(UER009)	ARC 66-709 QAS9 CA11A-(N24 P5 V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(UER012)	ARC 66-709 QAS9 CA11A-(R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

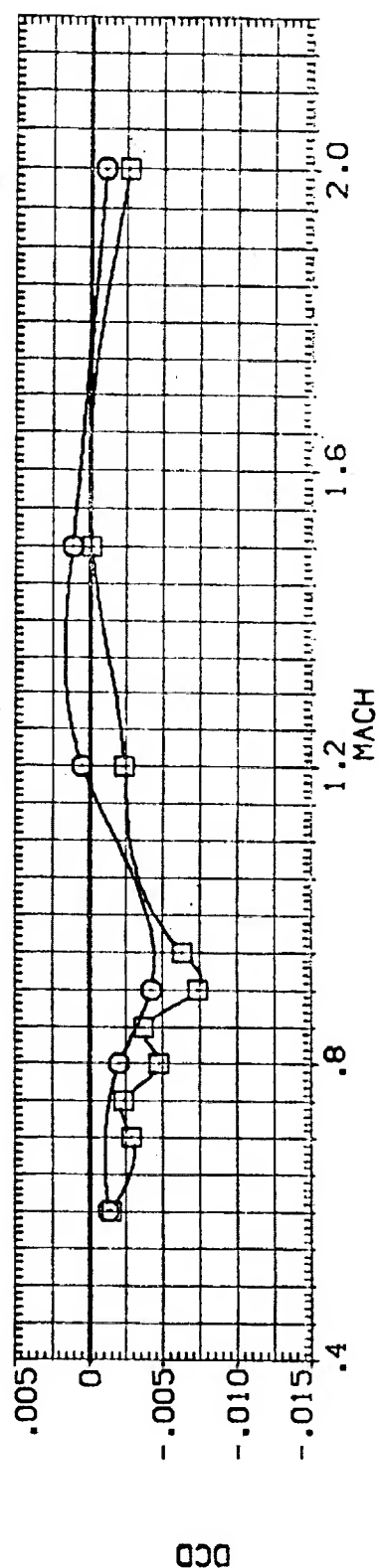
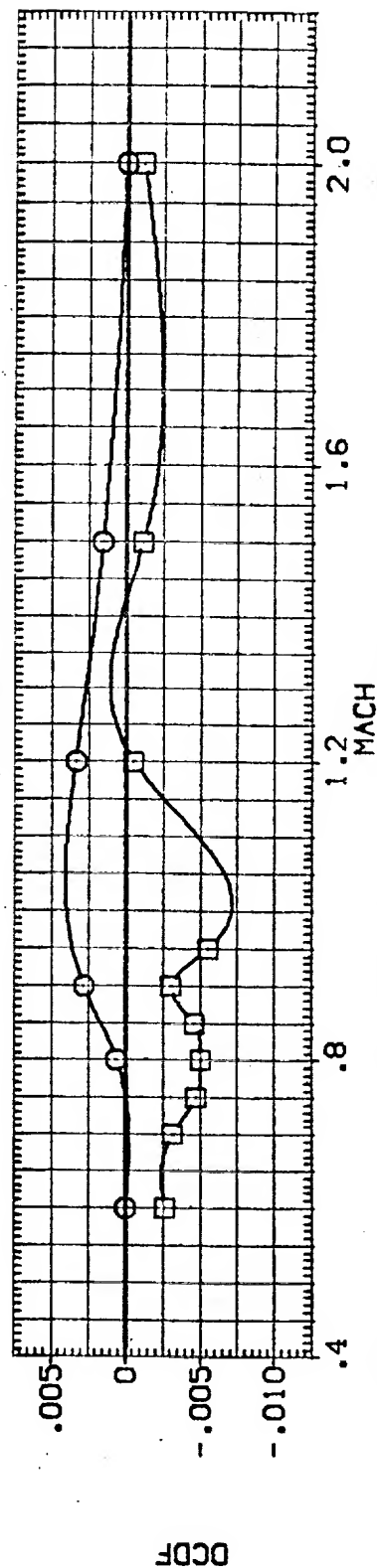
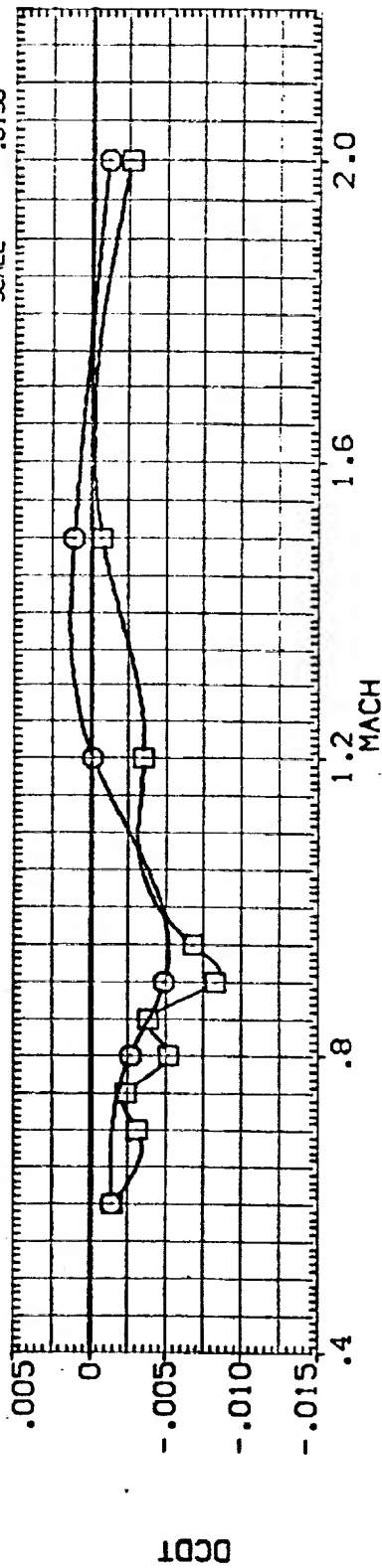


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UER009) □ ARC 66-709 DASS DA11A-(N24 RS V8)+STRUT
 (UER012) □ ARC 66-709 DASS DA11A-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

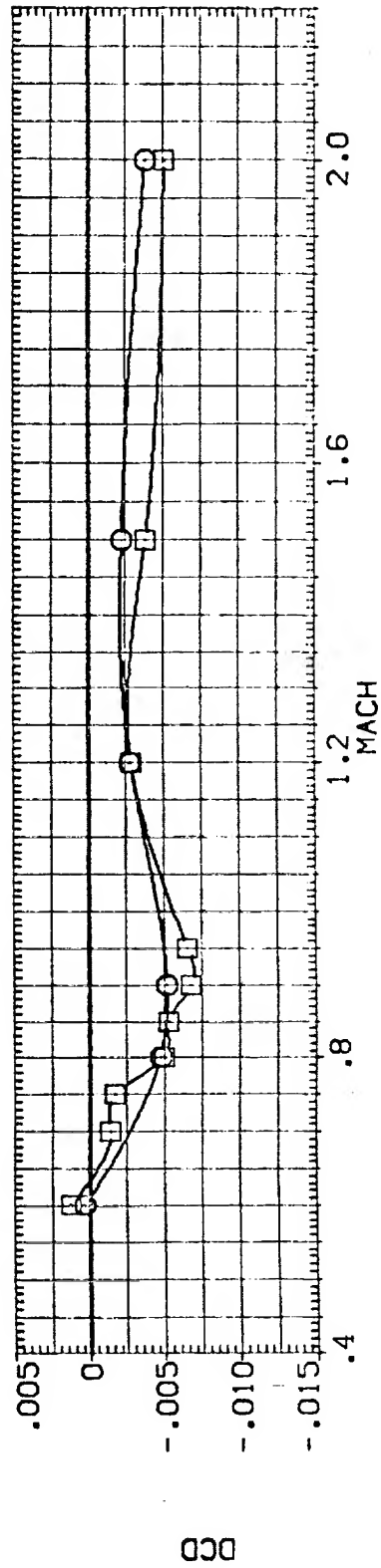
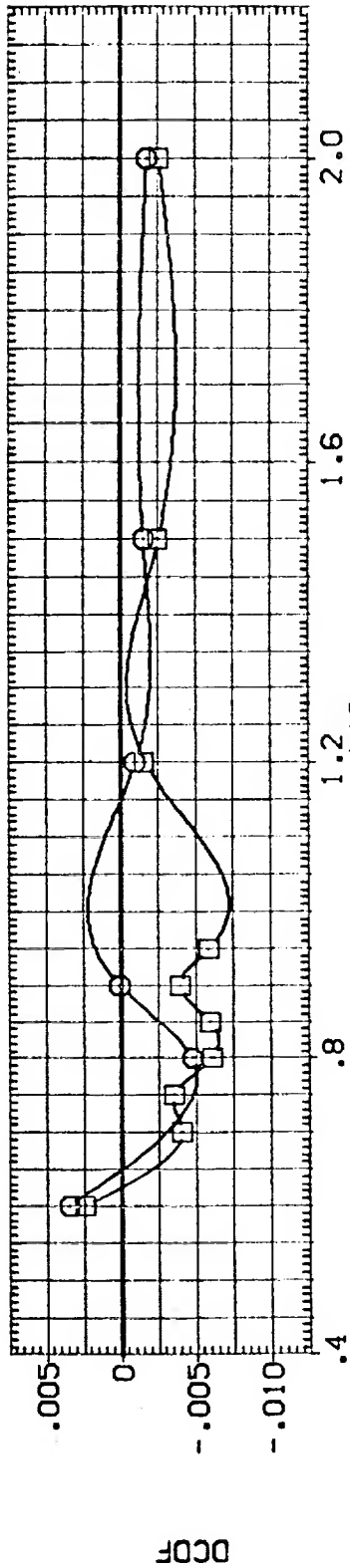
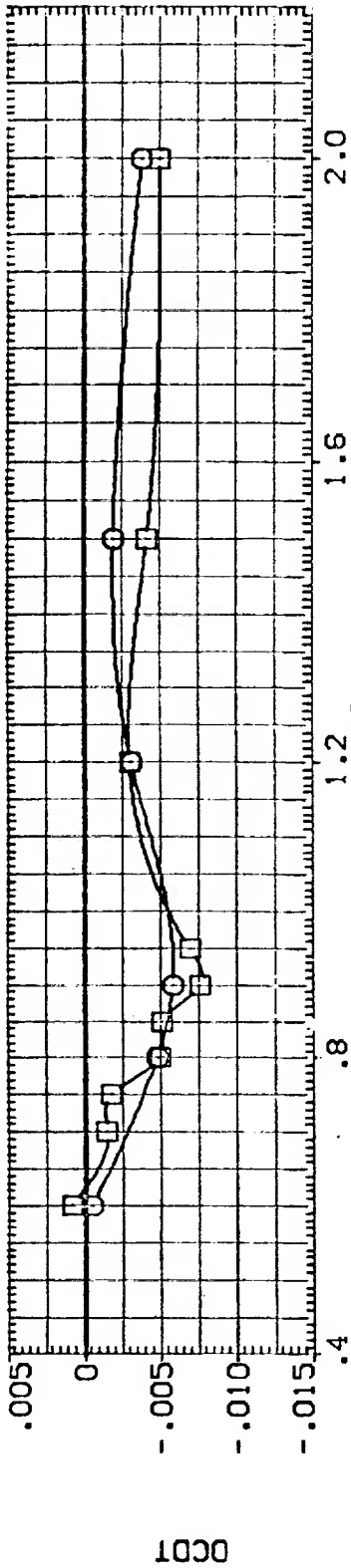


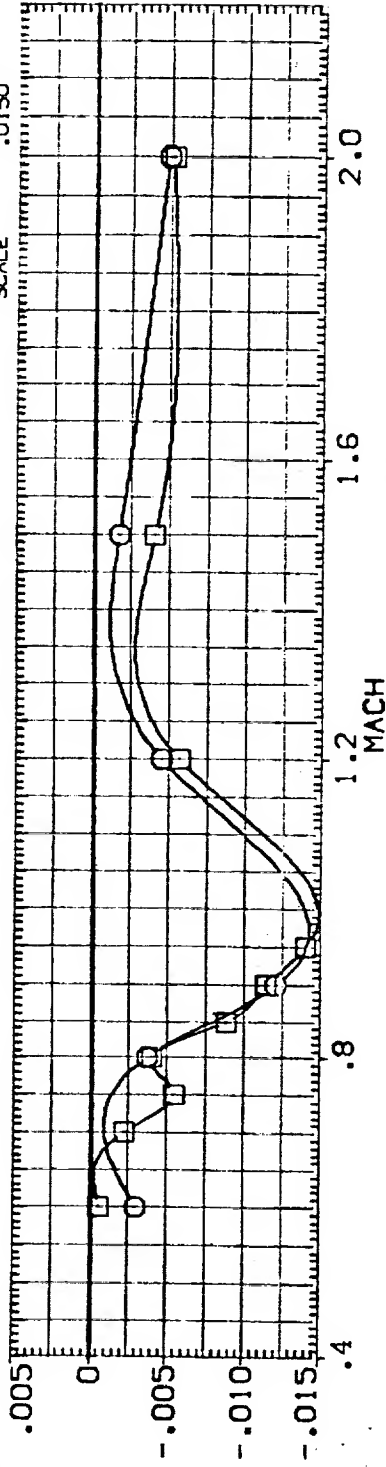
FIG. 9 PITCH TARE DATA COMPONENTS

(C) ALPHA = 10.00

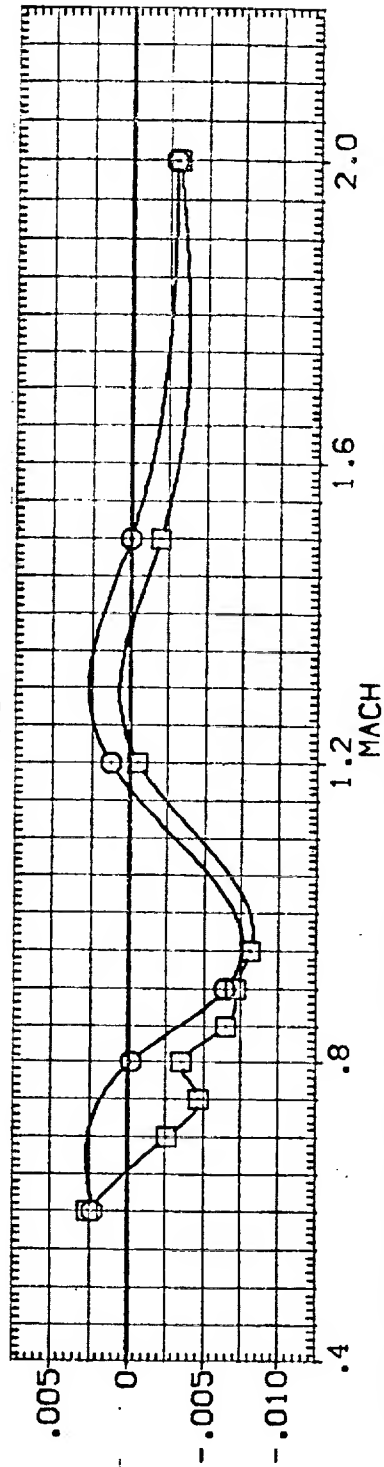
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UERO09) [] ARC 66-709 QAS9 QALIA-(N24 RS V8)+STRUT
 (UERO12) [] ARC 66-709 QAS9 QALIA-(RS V8)+STRUT

BETA ELEVON BOFLAP
 .000 .000 -11.700
 .000 .000 -11.700

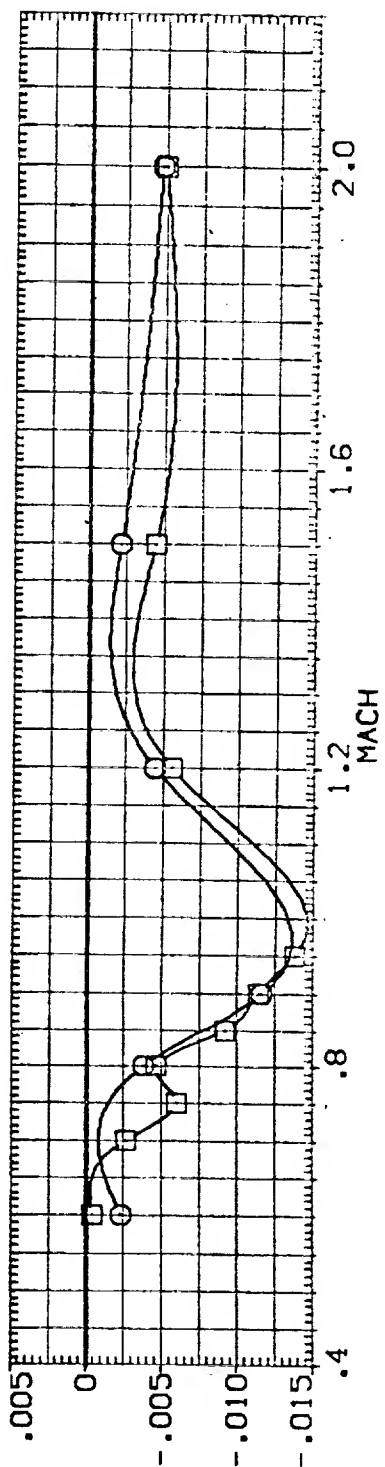
REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150



DCDT





DCDP



DCD

FIG. 9 PITCH TARE DATA COMPONENTS
 (D) ALPHA = 14.00

DATA SET SYMBOL (VER009)  CONFIGURATION DESCRIPTION
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 (VER012)  ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA .000
 ELEVON .000
 BOFLAP -11.700

REFERENCE INFORMATION
 SREF .6053 SQ.FT.
 LREF .5935 FT.
 BREF 1.1710 FT.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

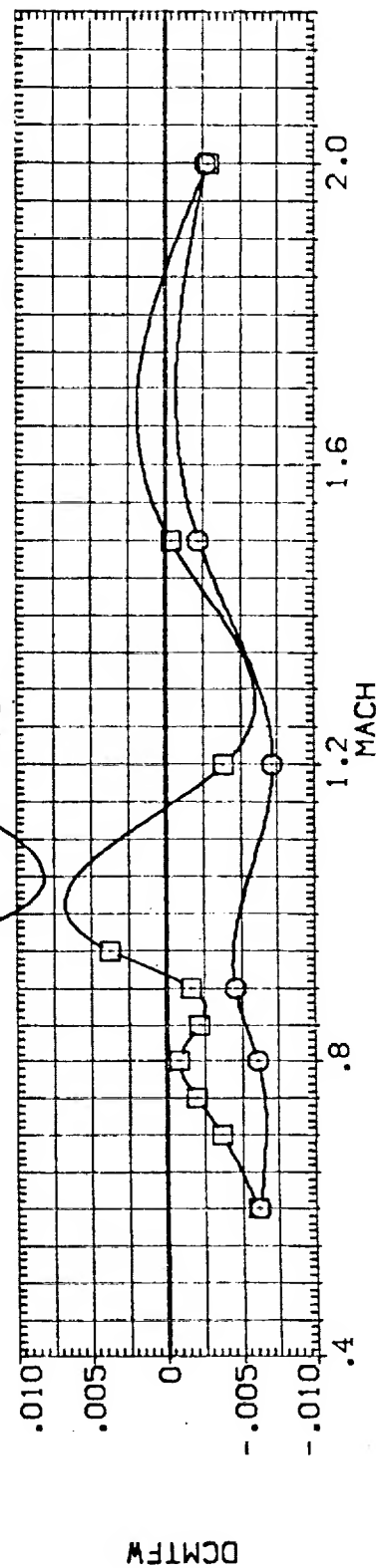
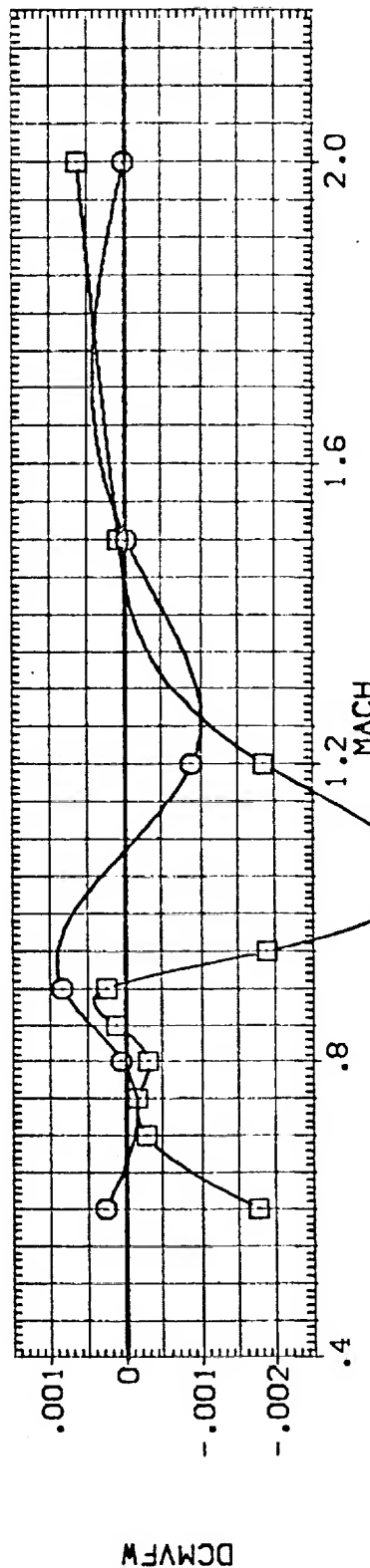
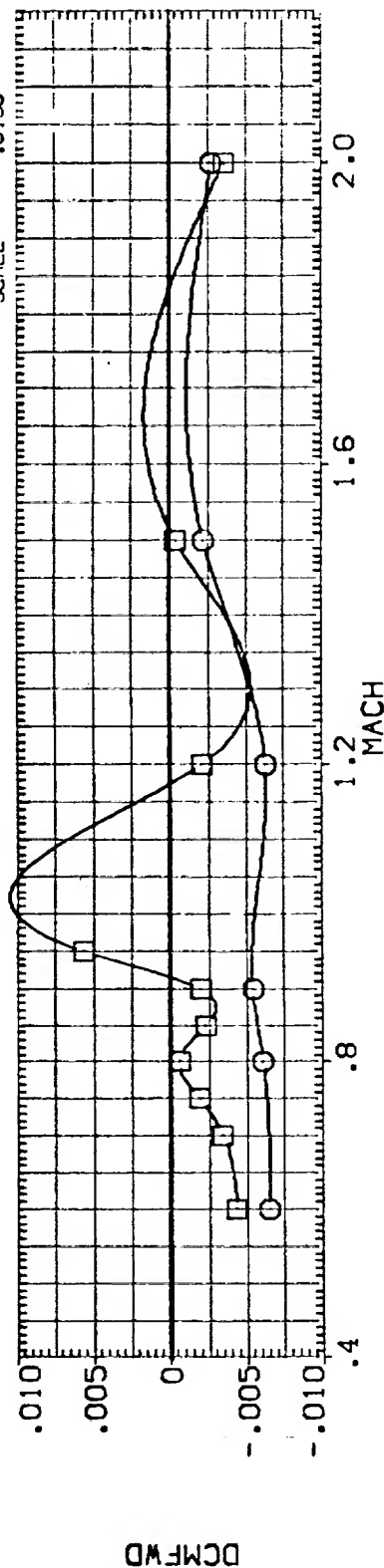


FIG. 9 PITCH TARE DATA COMPONENTS

(ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER009}	ARC 66-709 QAS9 QALIA-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 SQ.FT.
{VER012}	ARC 66-709 QAS9 QALIA-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

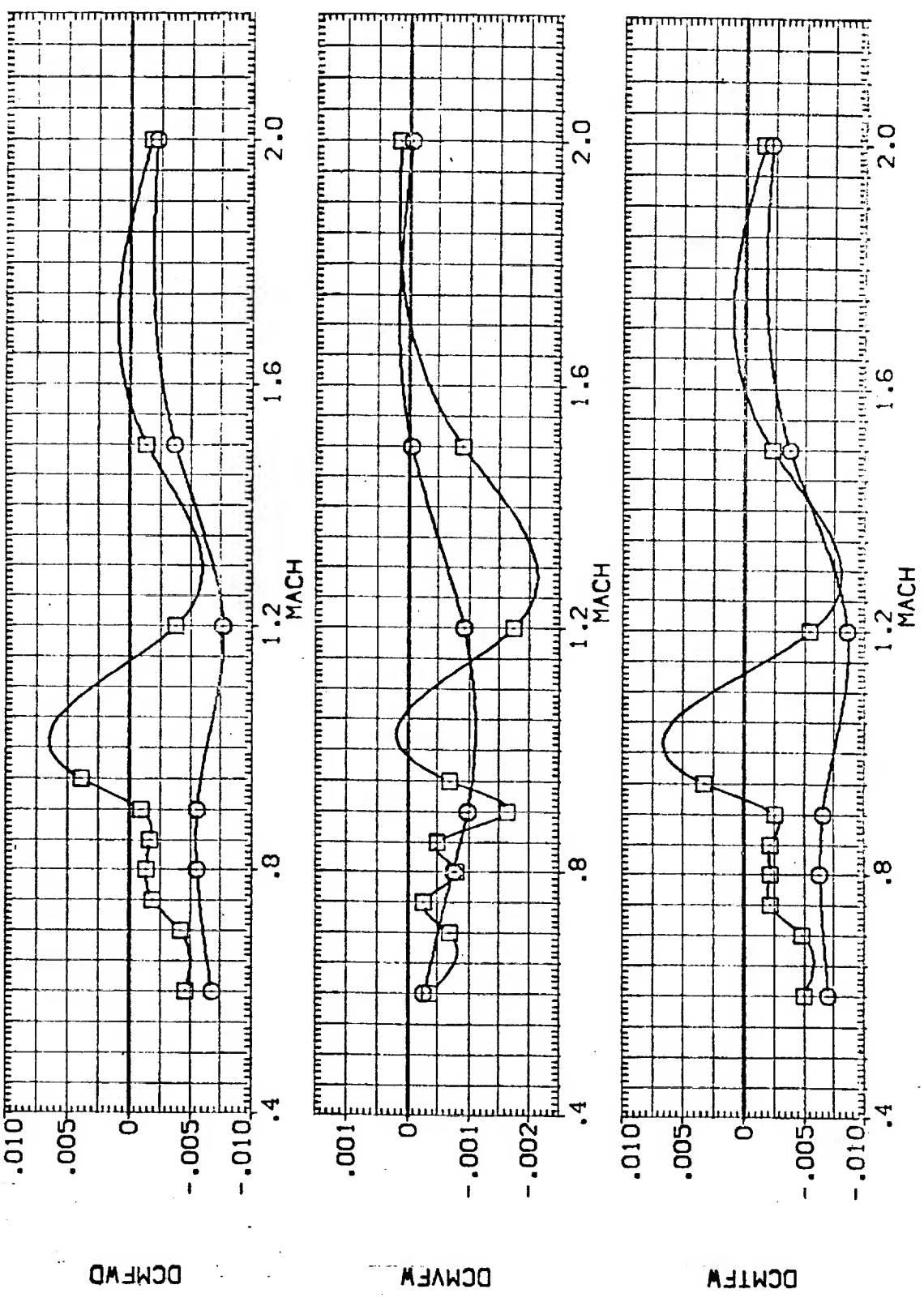


FIG. 9 PITCH TARE DATA COMPONENTS
(B) ALPHA = 5.00

BETA	ELEVON	80FLAP
.000	.000	-11.700
.000	.000	-11.700

REFERENCE INFORMATION	
SREF	.6053 SQ.FT.
LREF	.9935 FT.
BREF	1.1710 FT.
XMRP	12.6255 IN.
YMRP	.0000 IN.
ZMRP	-.3750 IN.
SCALE	.0150

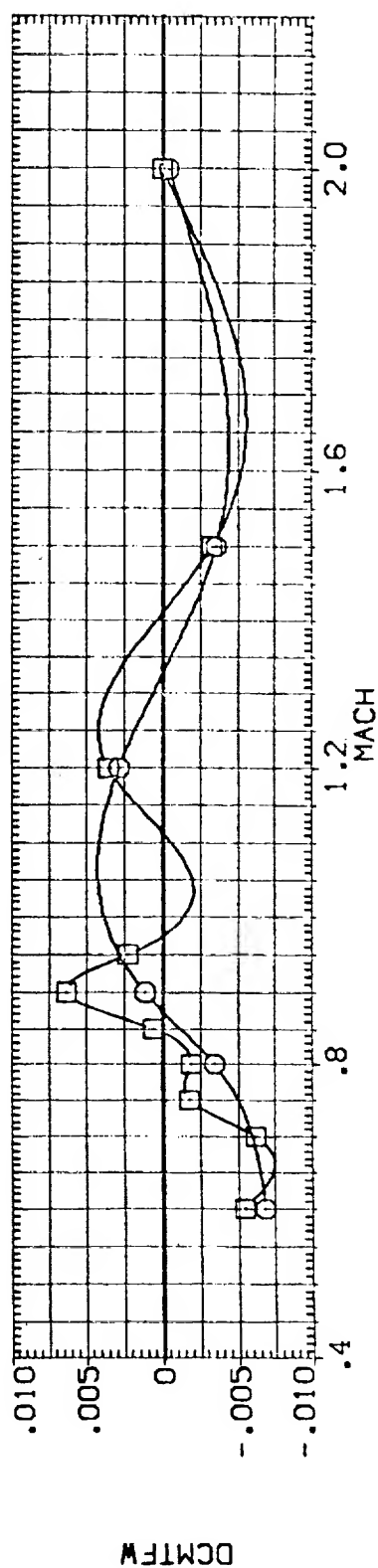
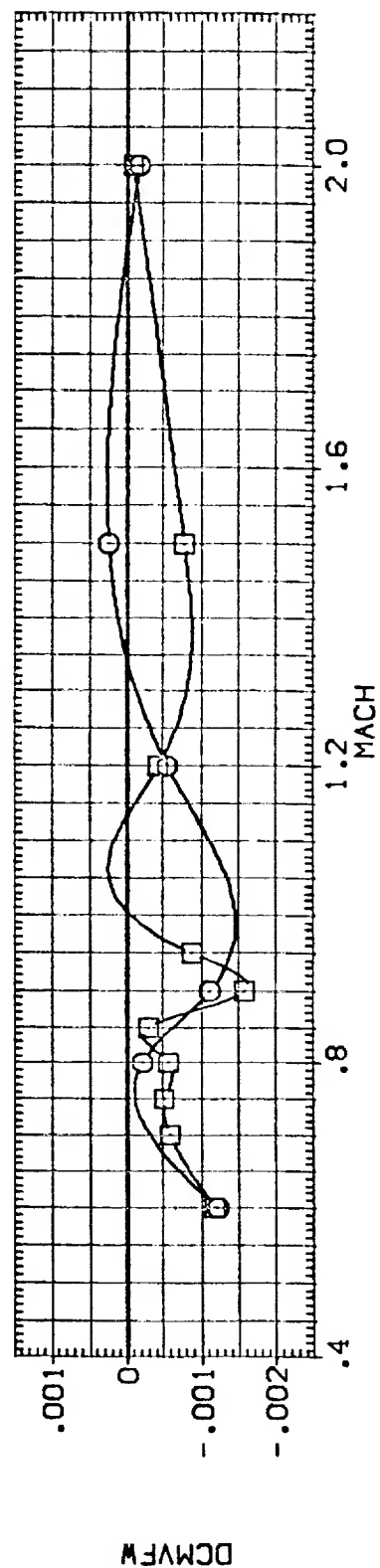
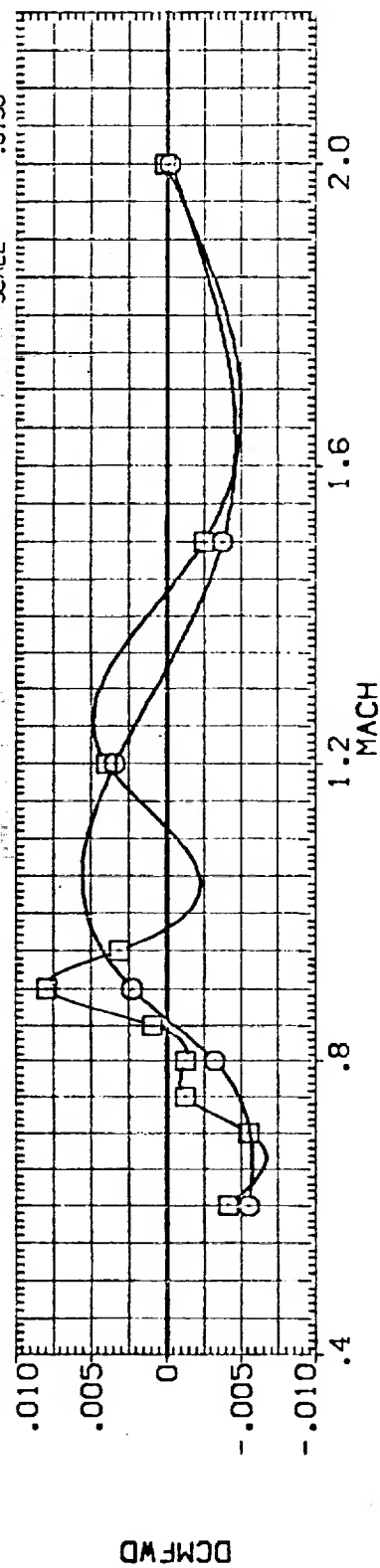


FIG. 9 PITCH TARE DATA COMPONENTS

$$(C)_{\text{ALPHA}} = 10.00$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
{VER009}	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
{VER012}	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

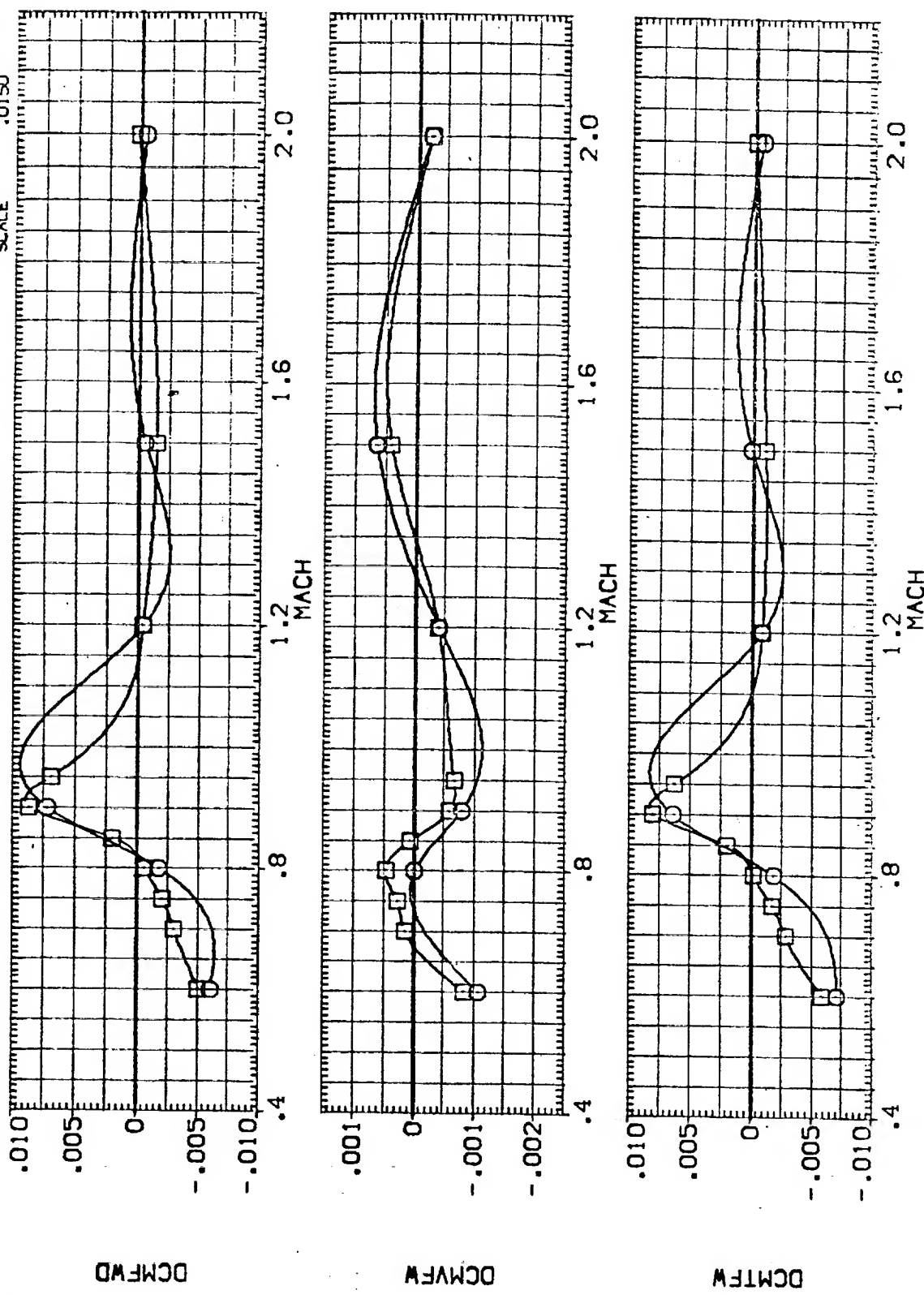




FIG. 9 PITCH TARE DATA COMPONENTS

(DJALPHA = 14.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VER009)  ARC 66-709 OAS9 OAI1A-(N24 R5 V8)+STRUT

(VER012)  ARC 66-709 OAS9 OAI1A-(R5 V8)+STRUT

REFERENCE INFORMATION

SREF .6053 SQ.FT.

LREF .5335 FT.

BREF 1.1710 IN.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

BETA ELEVON BOFLAP

.000 .000 -11.700

.000 .000 -11.700

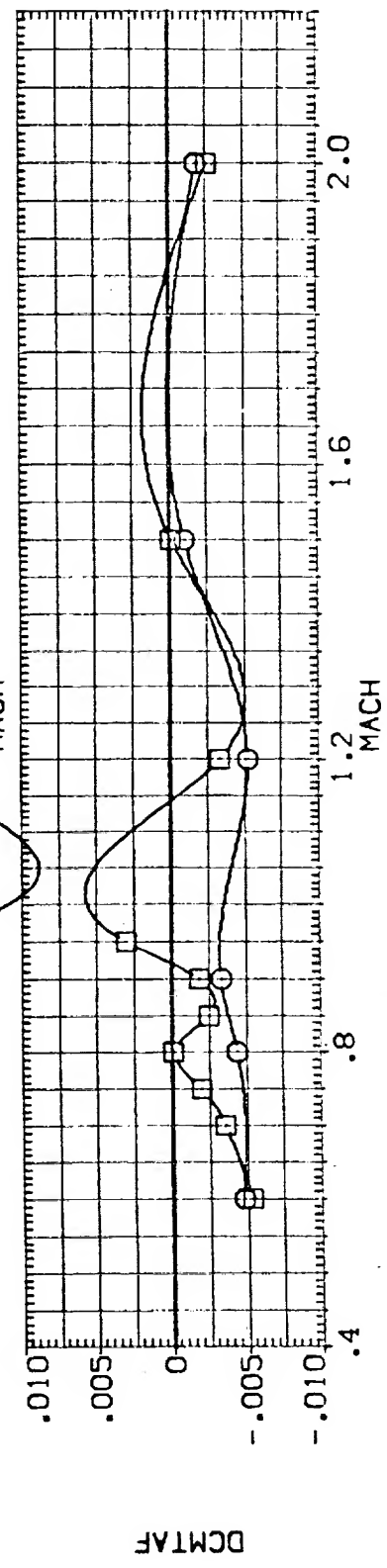
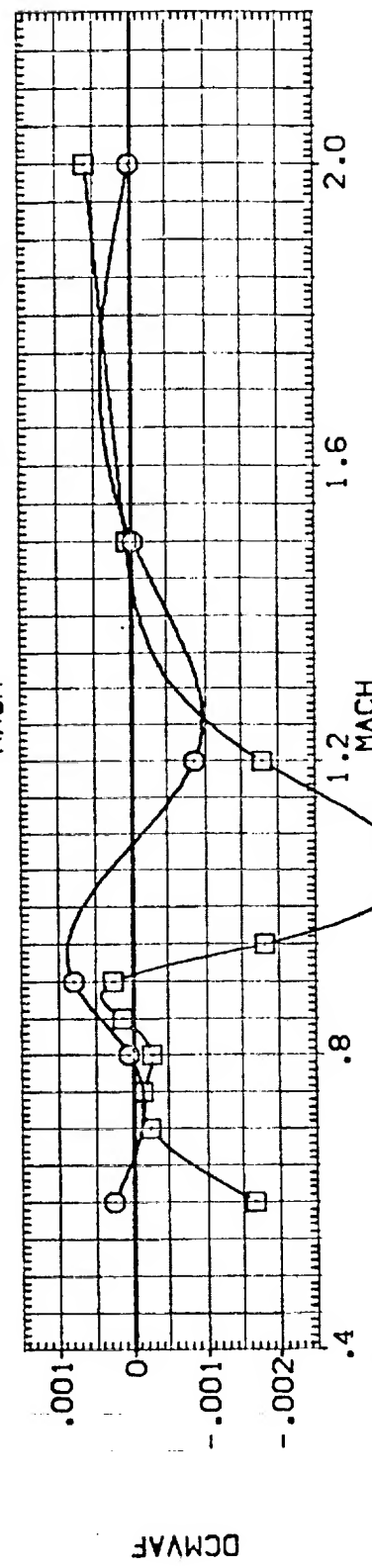
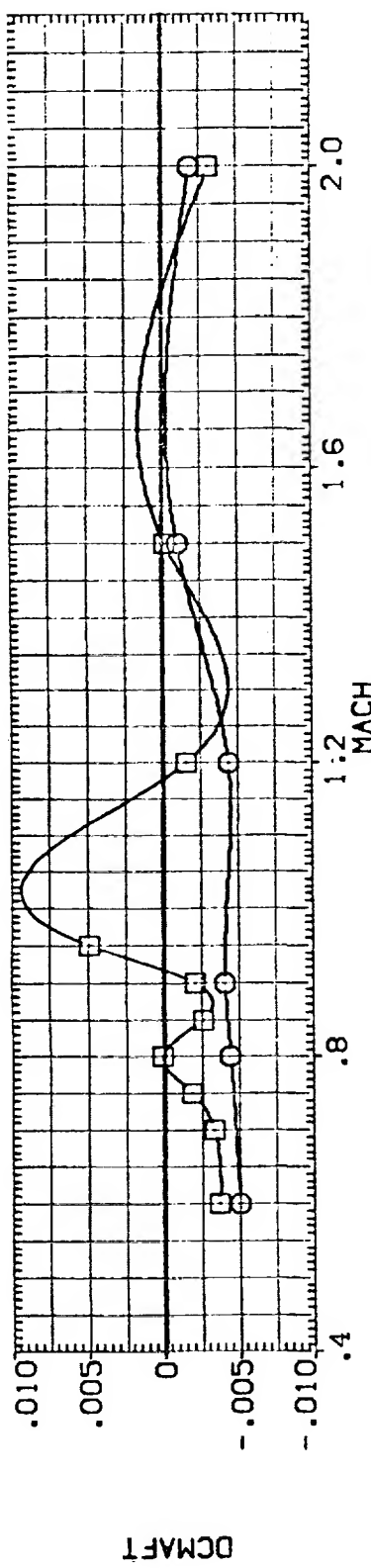


FIG. 9 PITCH TARE DATA COMPONENTS

(A) ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER009)	ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER012)	ARC 66-709 0A59 0A11A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 IN.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

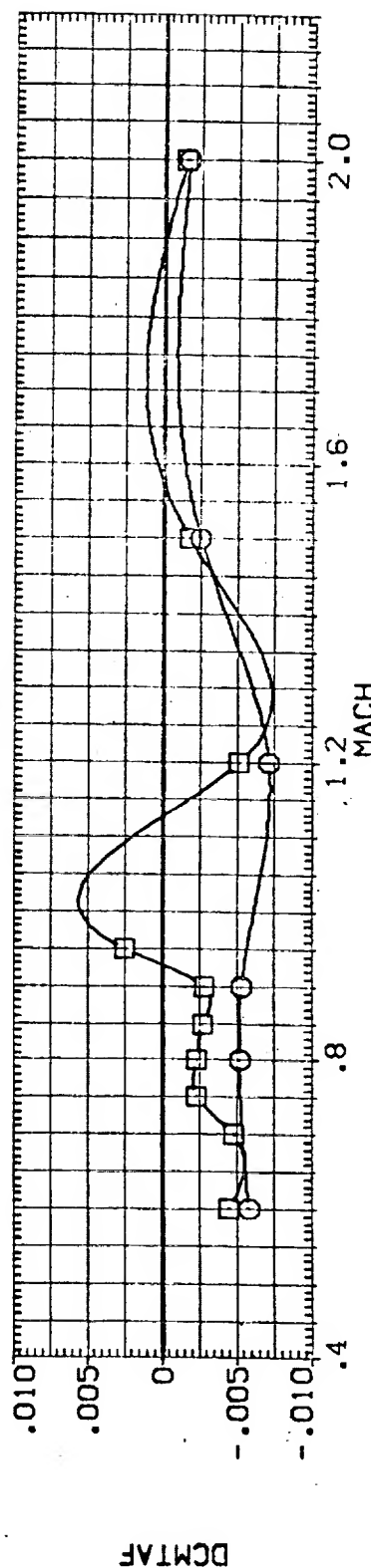
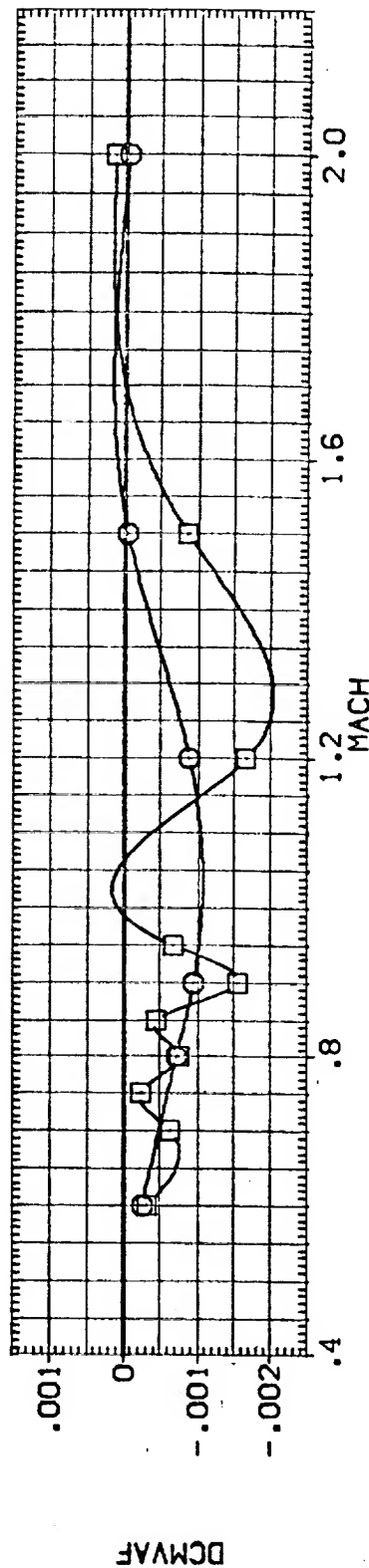
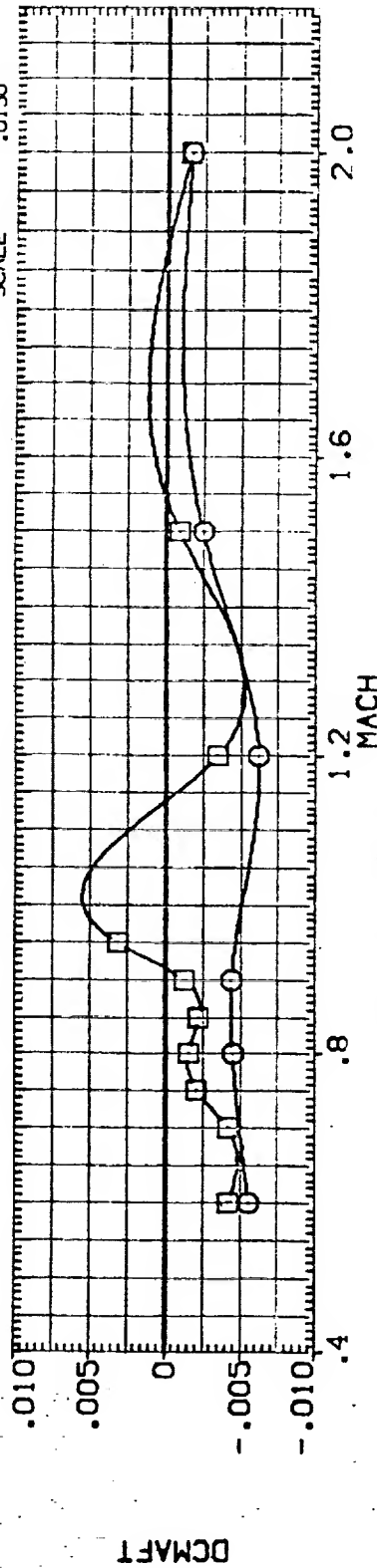


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL (VER009) (VER012)

CONFIGURATION DESCRIPTION
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA .000 .000
 ELEVON .000 .000
 BOFLAP -11.700 -11.700

REFERENCE INFORMATION
 SREF .6053 50.FT.
 LREF .5935 FT.
 BREF 1.1710 IN.
 XMRP 12.6255 IN.
 YMRP .0000 IN.
 ZMRP -.3750 IN.
 SCALE .0150

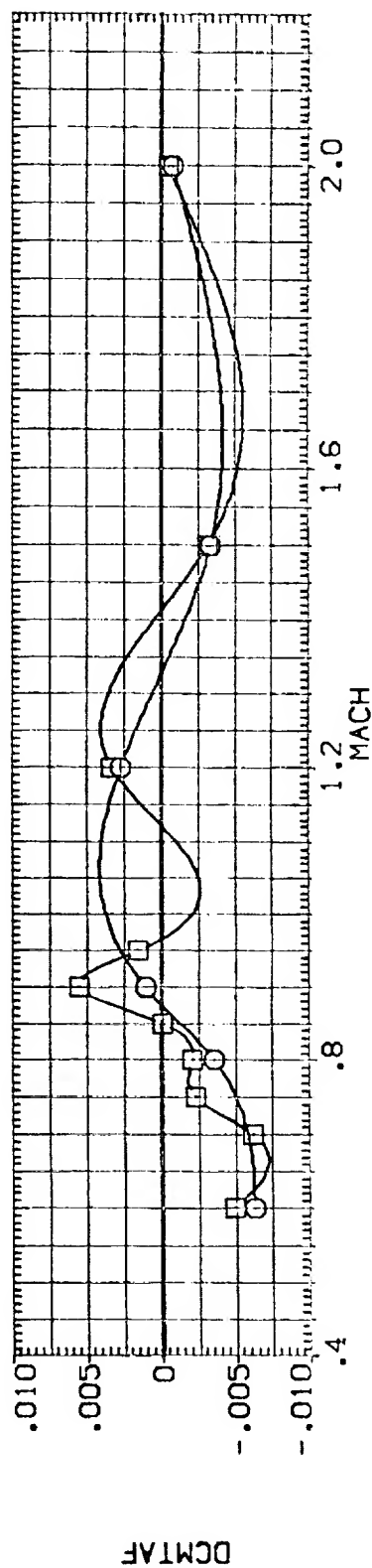
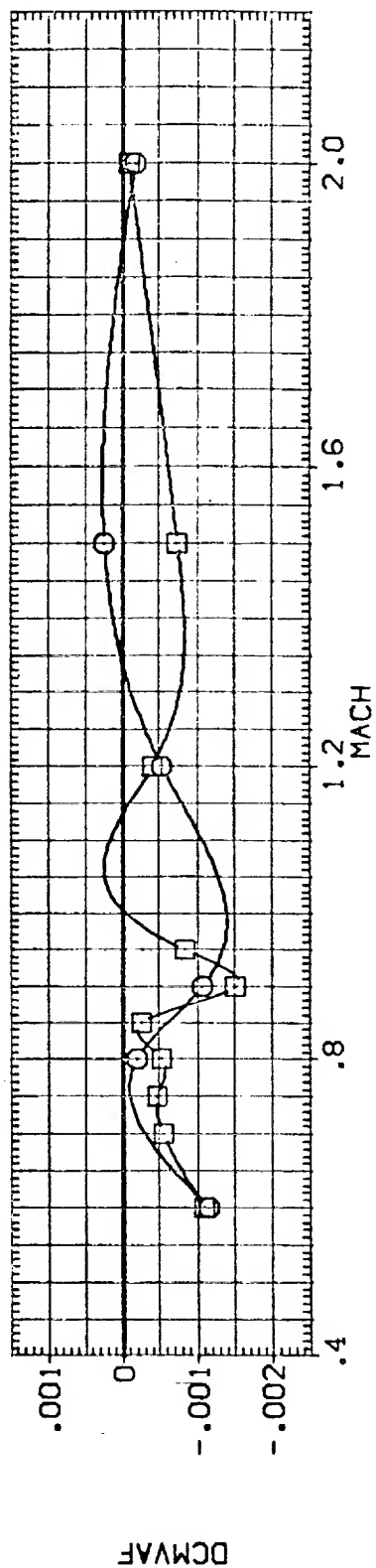
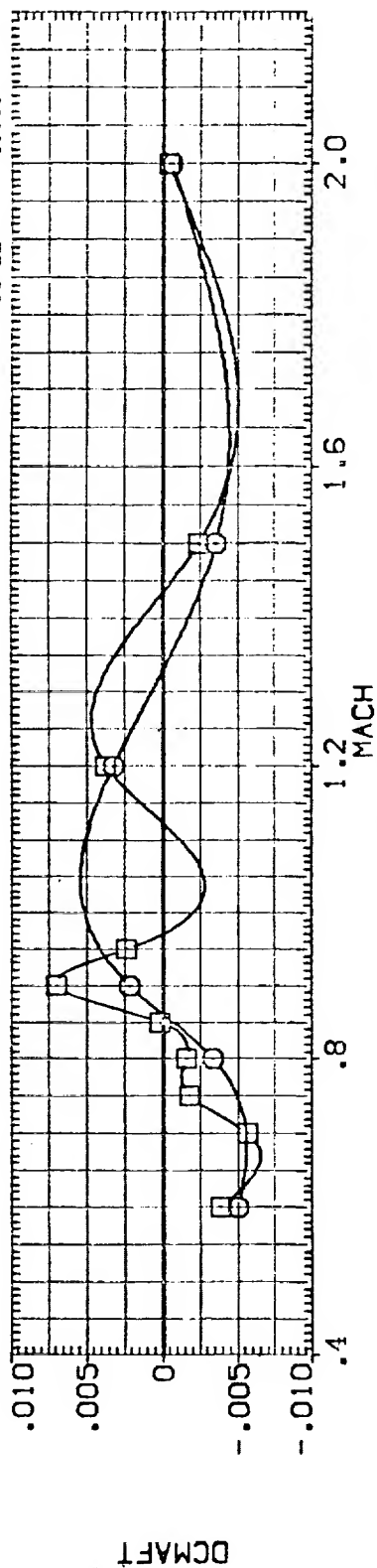


FIG. 9 PITCH TARE DATA COMPONENTS

(C)ALPHA = 10.00

DATA SET SYMBOL

(VER009)

(VER012)

CONFIGURATION DESCRIPTION

ARC 66-709 BASS DA11A-(N24 RS V8)+STRUT

ARC 66-709 BASS DA11A-(RS V8)+STRUT

BETA

.000

.000

ELEVON

.000

.000

BOFLAP

-11.700

-11.700

REFERENCE INFORMATION

SREF .6053 50.FT.

LREF .5935 FT.

BREF 1.1710 FT.

XMRP 12.6255 IN.

YMRP .0000 IN.

ZMRP -.3750 IN.

SCALE .0150

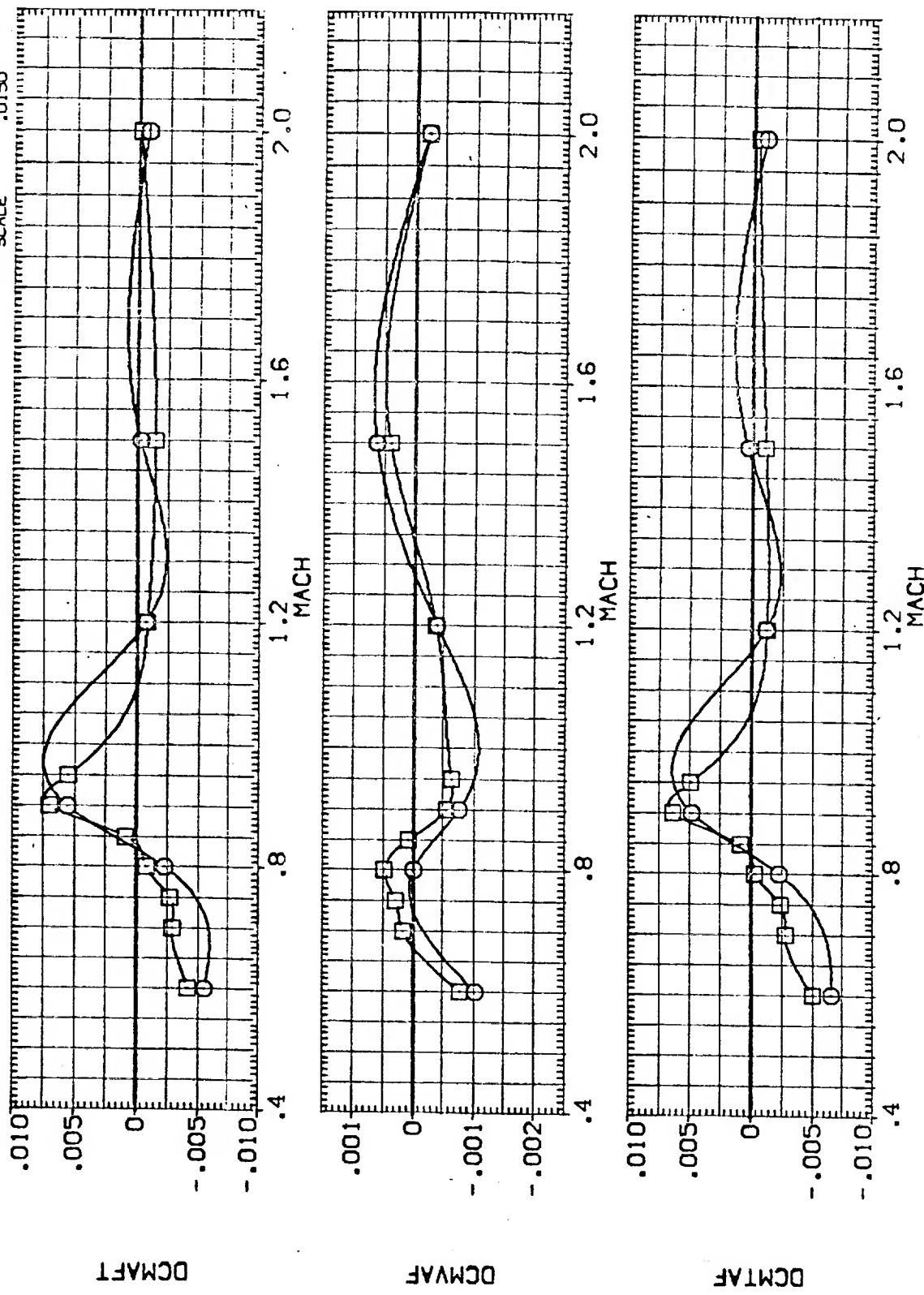


FIG. 9 PITCH TARE DATA COMPONENTS

(C) ALPHA = 14.00

DATA SET SYMBOL: (VER009) (VER012)

CONFIGURATION DESCRIPTION:
 ARC 66-709 0A59 0A11A-(N24 RS V8)+STRUT
 ARC 66-709 0A59 0A11A-(RS V8)+STRUT

BETA: .000
 ELEVON: .000
 BOFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 IN.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

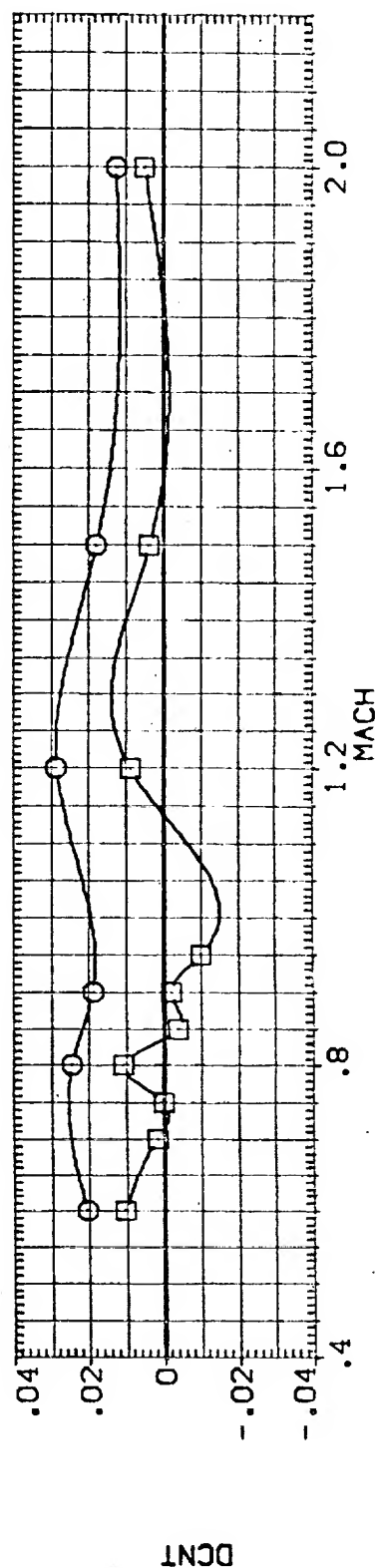
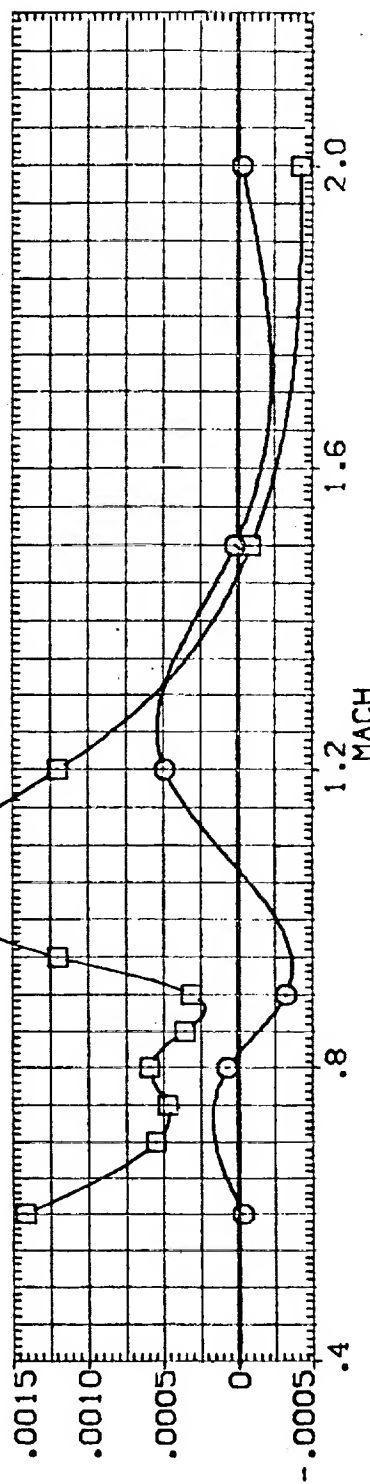
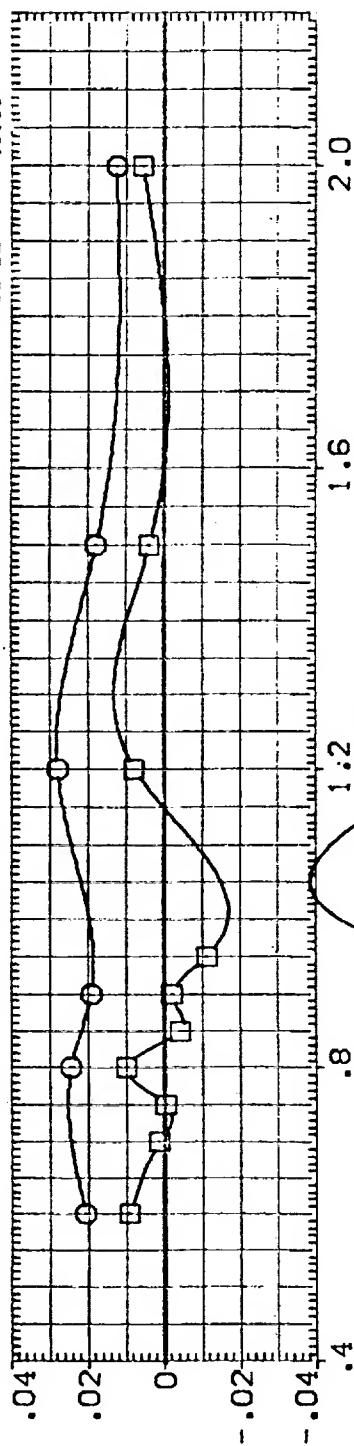


FIG. 9 PITCH TARE DATA COMPONENTS

(ALPHA = .00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER009)	ARC 66-709 OAS9 OAL1A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .6053 50.FT.
(VER012)	ARC 66-709 OAS9 OAL1A-(RS V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					XMRP 1.1710 FT.
					YMRP 12.6255 IN.
					ZMRP .0000 IN.
					SCALE -.3750 IN.

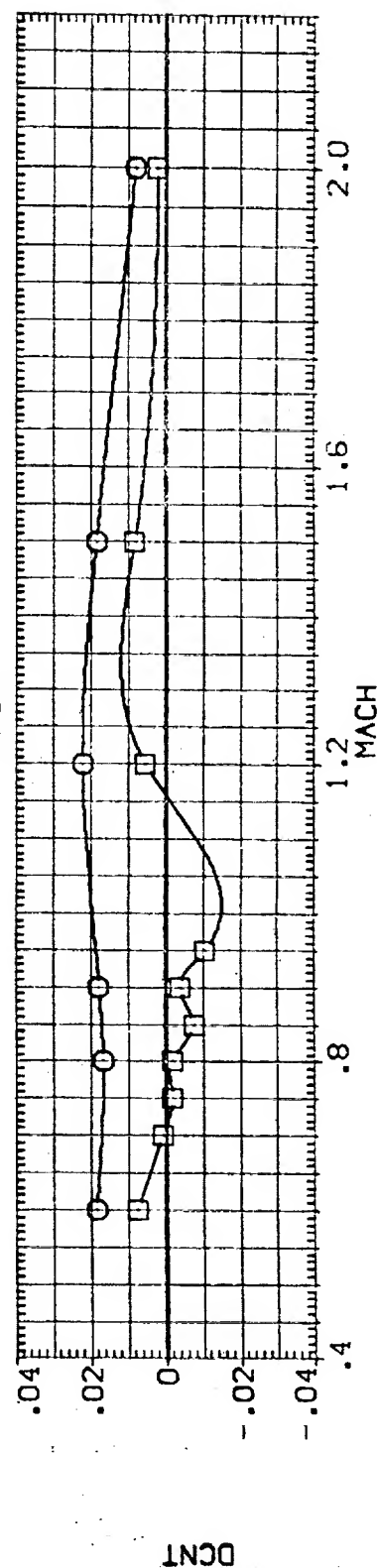
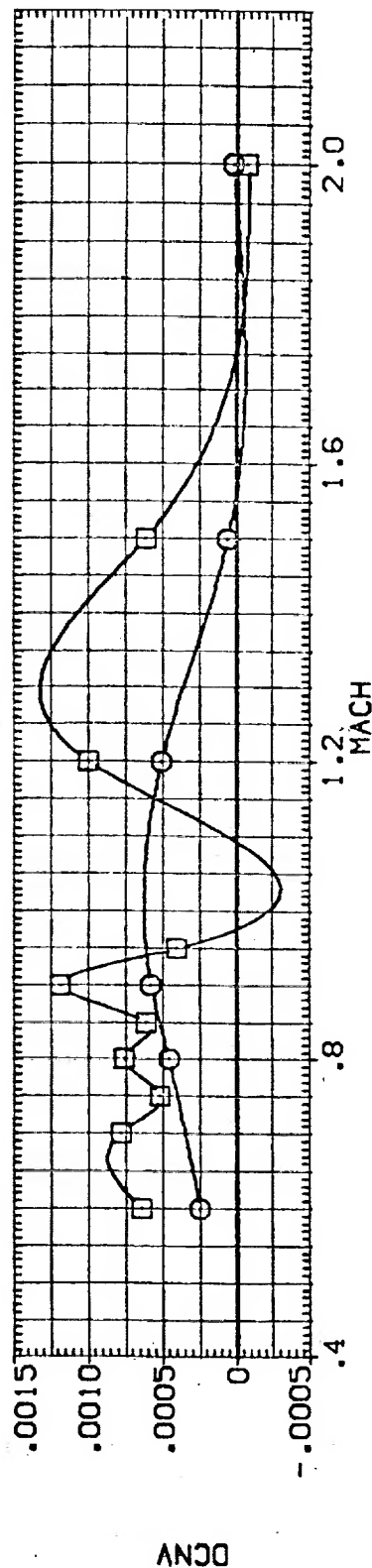
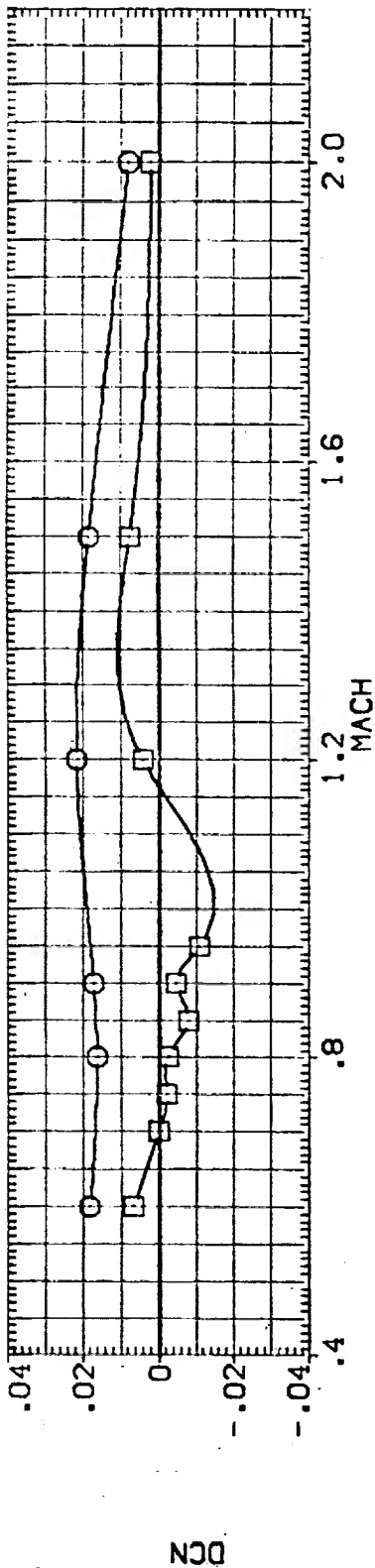


FIG. 9 PITCH TARE DATA COMPONENTS

(B) ALPHA = 5.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVON	BOFLAP	REFERENCE INFORMATION
(VER009)	ARC 66-709 D459 D411A-(N24 RS V8)+STRUT	.000	.000	-11.700	SREF .8053 50.FT.
(VER012)	ARC 66-709 D459 D411A-(R5 V8)+STRUT	.000	.000	-11.700	LREF .5935 FT.
					BREF 1.1710 FT.
					XMRP 12.6255 IN.
					YMRP .0000 IN.
					ZMRP -.3750 IN.
					SCALE .0150

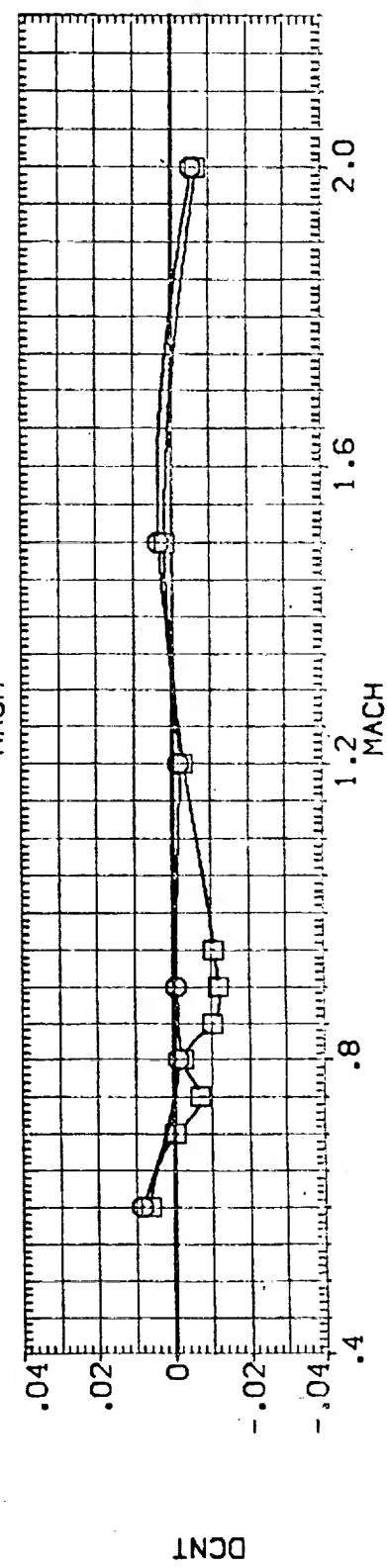
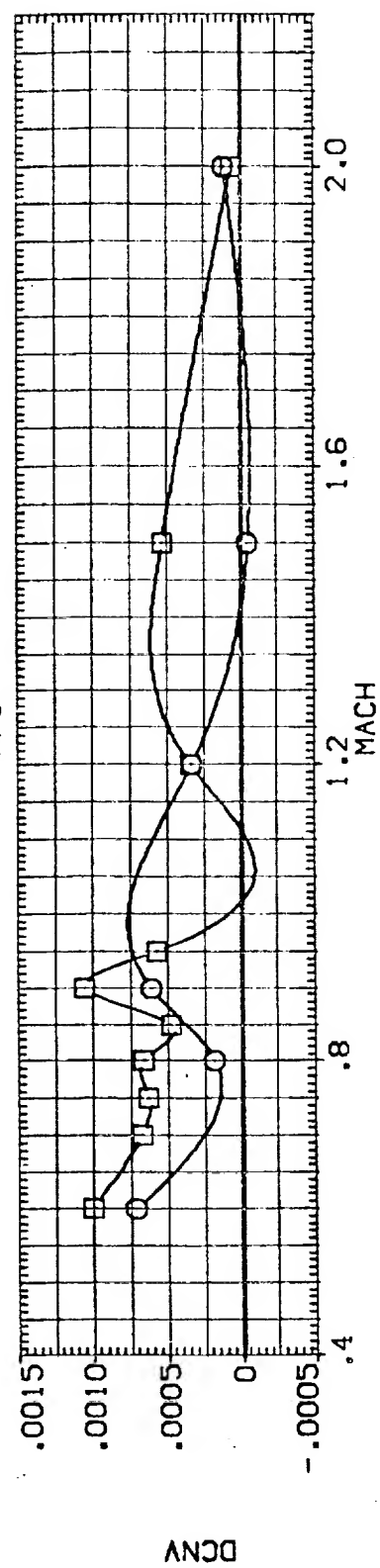
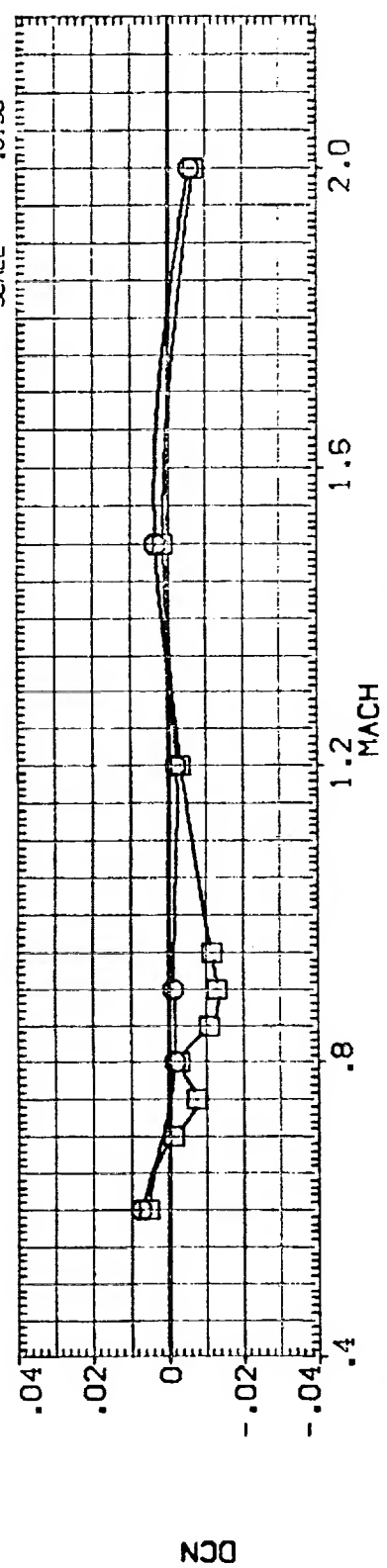


FIG. 9 PITCH TARE DATA COMPONENTS
(C)ALPHA = 10.00

DATA SET SYMBOL: (VER009)
 CONFIGURATION DESCRIPTION: ARC 66-709 DASS DA11A-(N24 RS V81)+STRUT
 (VER012) ARC 66-709 DASS DA11A-(RS V81)+STRUT

BETA: .000
 ELEVON: .000
 BDFLAP: -11.700

REFERENCE INFORMATION:
 SREF: .6053 SQ.FT.
 LREF: .5935 FT.
 BREF: 1.1710 IN.
 XMRP: 12.6255 IN.
 YMRP: .0000 IN.
 ZMRP: -.3750 IN.
 SCALE: .0150

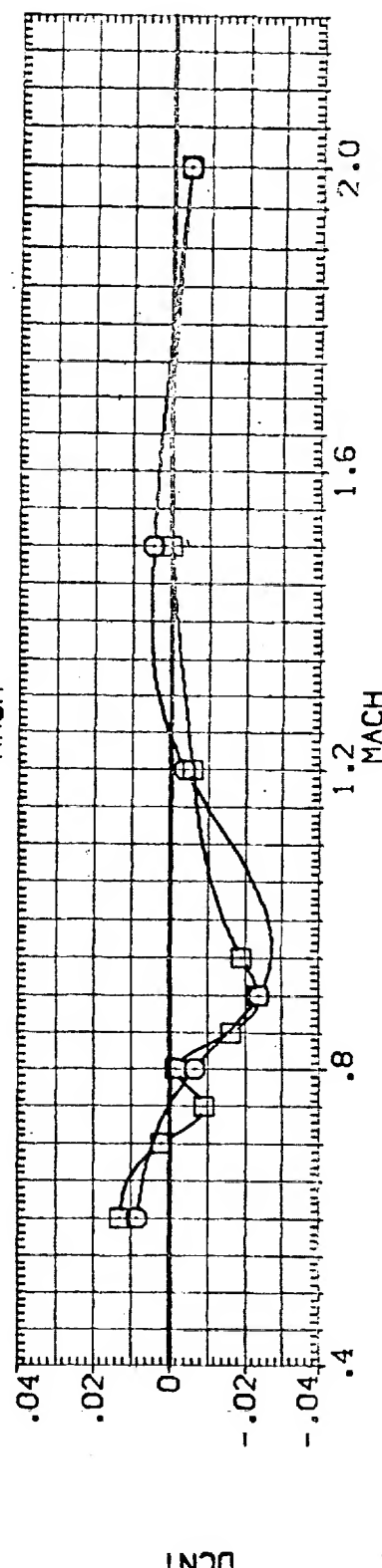
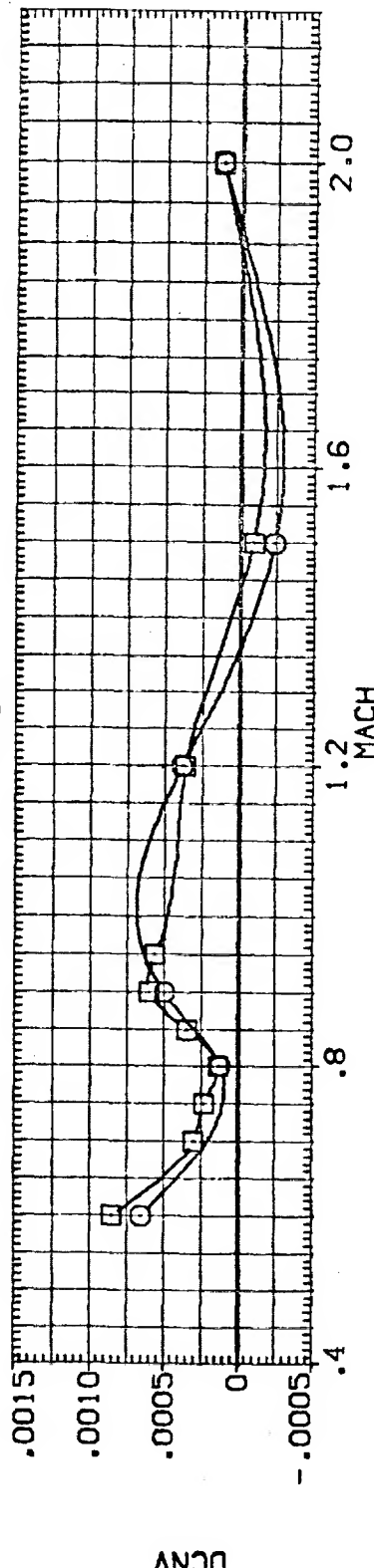
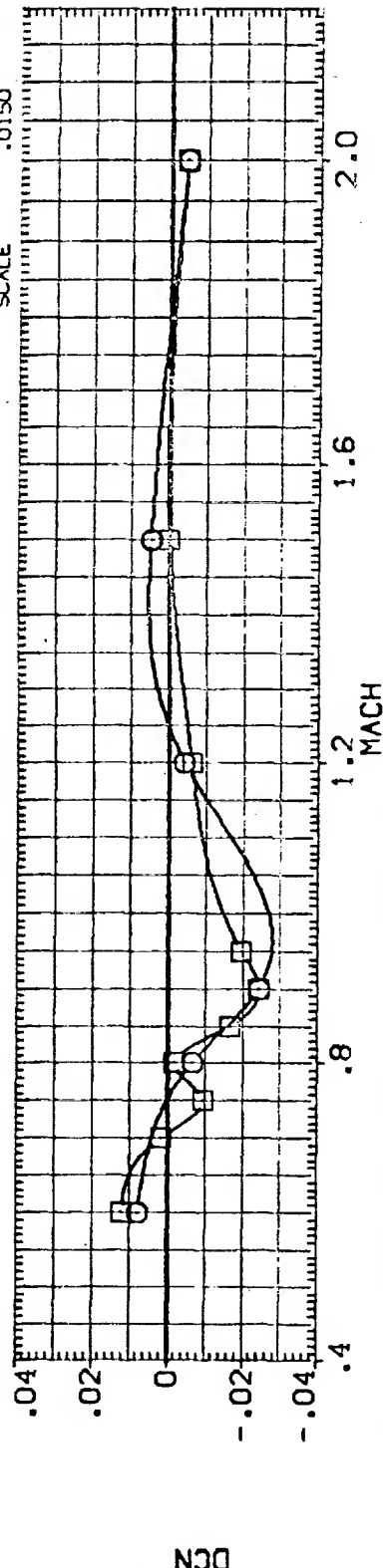


FIG. 9 PITCH TARE DATA COMPONENTS

(α) ALPHA = 14.00